PORTABLE WLAN SERVER

ROUTER 3,5G PRO

User Manual

Version 1.1

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FCC Caution

The device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

2. FCC RF Radiation Exposure Statement: The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

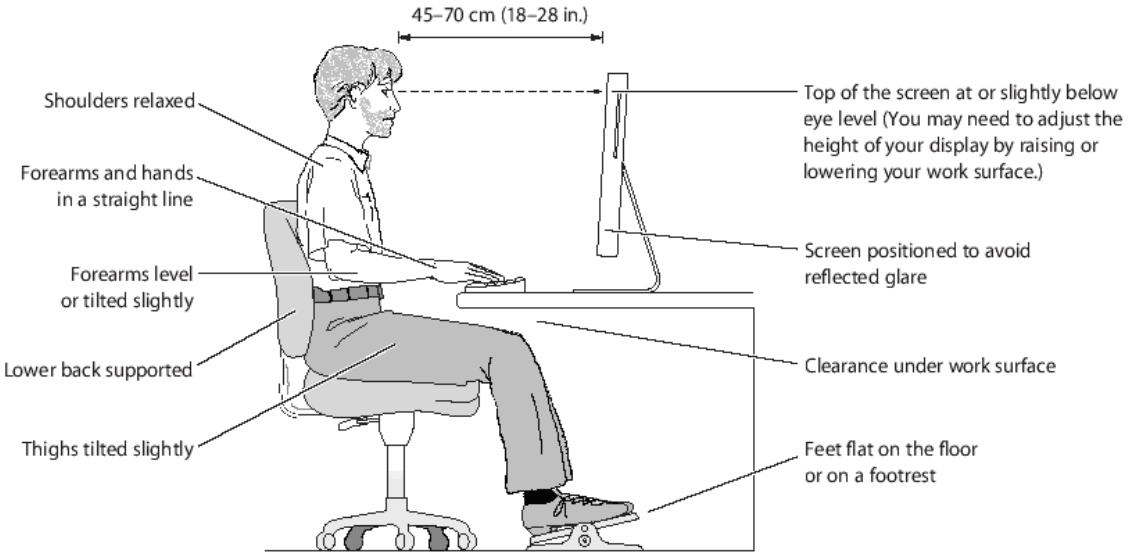
3. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

4. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Safe Seating Gestures

You should follow the manufacturer's instructions for adjusting the backrest to fit your body properly.

- An adjustable chair that provides firm, comfortable support is best.
- Adjust the height of the chair so your thighs are horizontal and your feet flat on the floor.
- The back of the chair should support your lower back (lumbar region).


45–70 cm (18–28 in.)
Shoulders relaxed
Forearms and hands in a straight line
Forearms level or tilted slightly
Lower back supported
Thighs tilted slightly
Top of the screen at or slightly below eye level (You may need to adjust the height of your display by raising or lowering your work surface.)
Screen positioned to avoid reflected glare
Clearance under work surface
Feet flat on the floor or on a footrest

CE Statement of Conformity

Our product has been tested in typical configuration by Ecom Sertech Corp and was found to comply with the essential requirement of "Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility" (89/336/EEC; 92/31/EEC; 93/68/EEC)

Chapter 1 Introduction

1.1 Overview

MT4205 might be small in size, but is huge in functionality, supporting multiple operation modes, including Access Point (AP) mode, Router mode, and Wireless Client mode. You can switch among these modes easily by using MT4205's 3-way configuration switch. In addition to, there are 2 USB ports available for connecting any devices which allow LAN users to utilize shared printer and samba server. Also, apply MT4205 with a Webcam to monitor in real time, or with a USB-connected Flash/Drive to become a FTP server providing shared download service in the mean time.

In other words, monitor your home with a Webcam by taking pictures via MT4205 and record all images into the USB HDD for reviewing. Often marketed as surveillance tools for home or office security, network Webcams are now being employed by early adopters for more personal matters, such as watching kids and monitoring pets. The Webcam can be remotely accessed and controlled via a browser. Moreover, while connectting MT4205 with 3.5G USB dongle to access Internet or work as connection backup, you can immediately speed up data transmission, as well as calling out and receiving phone calls via a cell phone.

1.2 Features

MT4205's main functions, including Wireless Access, Printer Server, Webcam Monitor, Samba Server, FTP Server and IP Sharing etc. are shown as below. These features and their applying instructions specified in User Manual will not only fulfill your requirements, but also ease your inconvenience from the job.

- **Easy Setup**

Proprietary utility is designed to let users, even the beginners, complete their server setups easily and access Internet without any difficulty.

- **3 Operation Modes**

The unit provides Router, AP and Client operation modes by sliding side switches first.

- **Web GUI**

Friendly user interface only requires supported web browser to start advanced setup.

- **Printer Server**

MT4205 supports LPR protocol, so users can use shared printer from both WAN and LAN.

- **Webcam Server**

The product supports USB Web Camera, which provides easy and affordable solution for home security. It allows users monitoring home from anywhere via online webcam. Also, you might be alerted by an email with an intruder picture.

- **Samba Server**

It is located on your network places to provide shared information and printer for LAN users.

- **FTP Server**

MT4205 supports FAT32/EXT3 file system format. Plug with USB hard drive or thumb drive, it will become a FTP server, and the users can share files on the Internet.

- **Security/Encryption**

The unit is equipped with encryption types of WEP, WPA, 802.1x and so on to give more security assurance.

- **Real-time Monitoring**

MT4205 can save real-time images from connected webcamera for the purpose of home safety monitoring.

- **3.5G Internet Connection**

With a 3.5G USB dongle, MT4205 can upgrade its data transmission rate on the Internet.

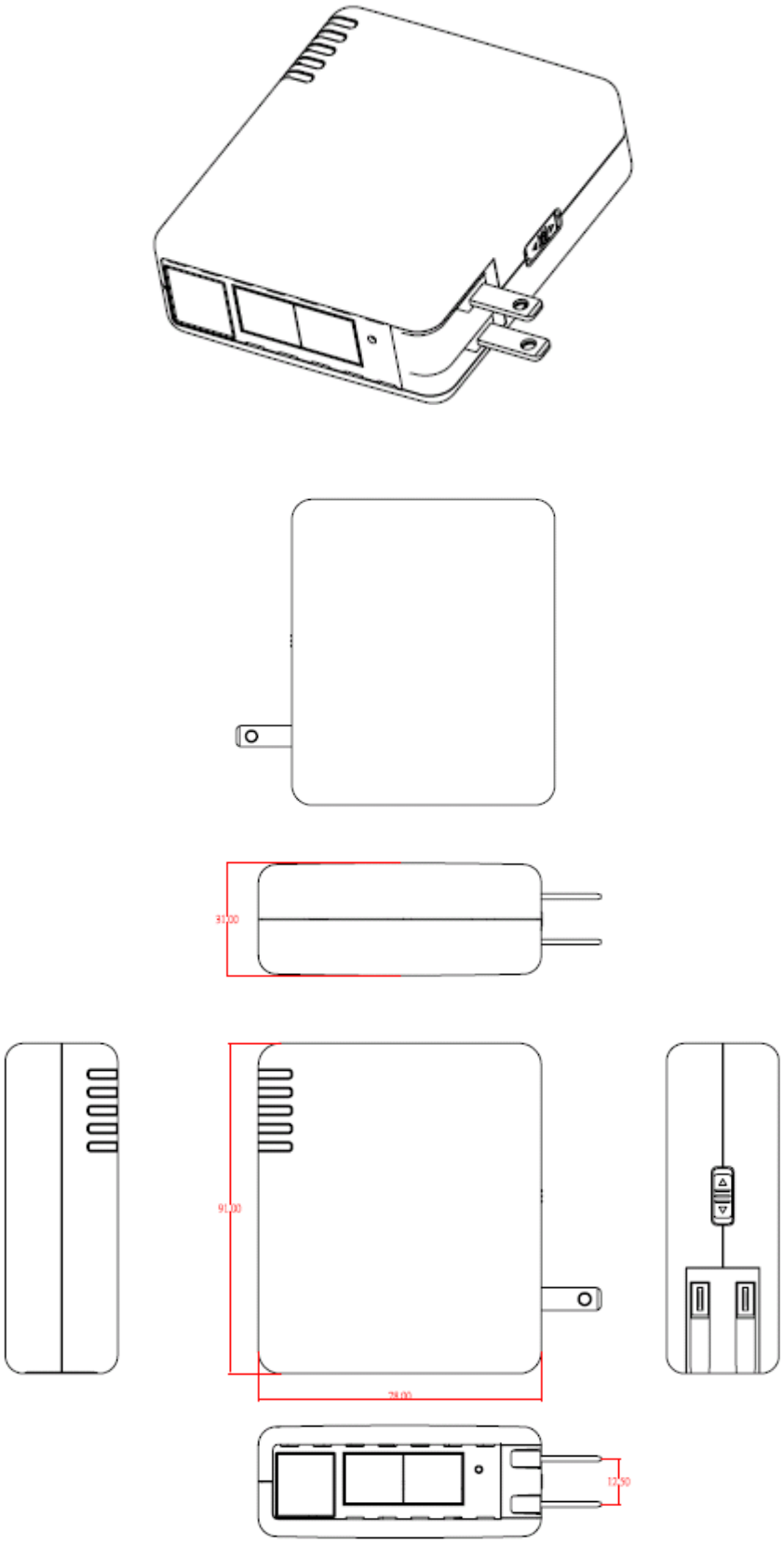
1.3 Specifications

Interface	Components	CPU	Star 9105gu
		Flash ROM	8Mbyte (NAND Gate)
		DRAM	32MByte
	WAN Port	1 x 10/100 Mbps RJ45, with auto MDI/MDIX	
	LAN Port	1 x 10/100 Mbps RJ45, with auto MDI/MDIX	
	USB2.0 Port	2 x Standard _A type—USB 2.0 for 3.5G USB Dongle, USB Webcam, USB printer, USB Flash/HDD	
	Wireless	Ralink 2561 Mini_PCI	
	Slide Switch	Router / AP / Client mode exchange function.	
Function	Web-Base	Windows IE / Linux Firefox / MAC Safari	
	WAN Protocol	PPPoE / PPTP / Static IP/ Dynamic IP/ HSDPA/UMTS	
	WLAN	WDS / WEP Key / WPA / WPA-PSK / MAC Access Control /Hidden SSID	
	Routing	UPnP / DHCP / DNS / WINS / DDNS	
	NAT	Virtual Server / Virtual DMZ	
	Firewall	MAC Filter / URL Filter / SPI / DoS Protection / IP Packet Filter	
	QoS	3-level priority for each application port	
	Folder Management	Disk Format	
	User account Management	User account create and access control	
Application Management	Webcam Server	Webcam view via browser by internet real time Picture monitor from LAN/WAN PC Picture recording to FTP server or USB HDD	
	Printer Server	Printer Via WAN/LAN PC Printer Sharing	
	Samba Server	File Sharing	
	FTP Server	Anonymous login / User Login	
Others	Administrator	Quick Setup Wizard / Site Map Setup wizard / General Setup	
	Personal Panel	My Document / My Webcam / My Status	
	Operation Requirement	Operating Temp. 0°C~40°C (32°F~104°F) Storage Temp. -20°C~70°C (-14°F~158°F) Operating Humidity 10% to 85% Non-Condensing Storage Humidity 5% to 90% Non-Condensing	
	Peak Gain of the Antenna	2dBi @ 2.45GHz	
	Transmitted Power (Typical)	15dBm @ Normal Temp. Range	
	Receive Sensitivity (Typical)	Normal Temp. Range: 11Mbps: 10-5 BER @ -83 dBm	
Application	Dimension	91mm (L) x 80mm (W) x 29mm (H)	
	Power	Adapt AC 100 V ~ 240 V in / DC 12V 2.5A output	

Notice: USB devices with power more than 0.5 mAh are not supported.

Notice: Firmware Upgrade available through download.

1.3.1 Six Views of Product Appearance



1.4 System Requirements

To begin with MT4205, you must have the following minimum system requirements. If your system can't correspond to the following requirements, you might get some unknown troubles on your system.

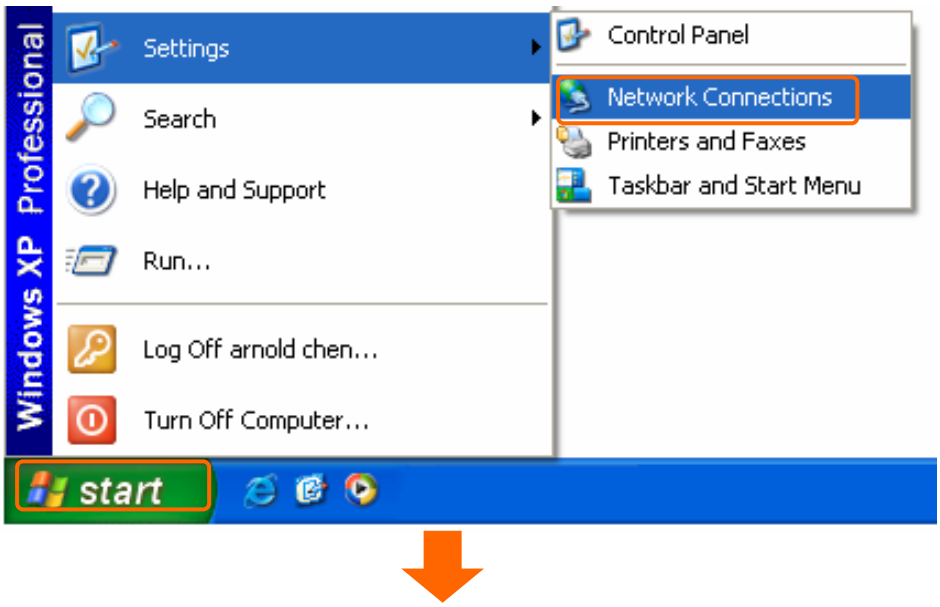
- XDSL/Cable Modem and broadband Internet Account.
- One Ethernet (10 BASE-T or 10/100 BASE-TX) network interface card.
- TCP/IP and at least one web browser software installed (E.g.: Internet Explorer 5.0, Netscape Navigator 7.x, Apple Safari 2.03 or higher version).
- At lease one 802.11g (54Mbps) or one 802.11b (11Mbps) wireless adapter for wireless mobile clients.
- Recommended OS: Win2000 or WinXP / Linux.

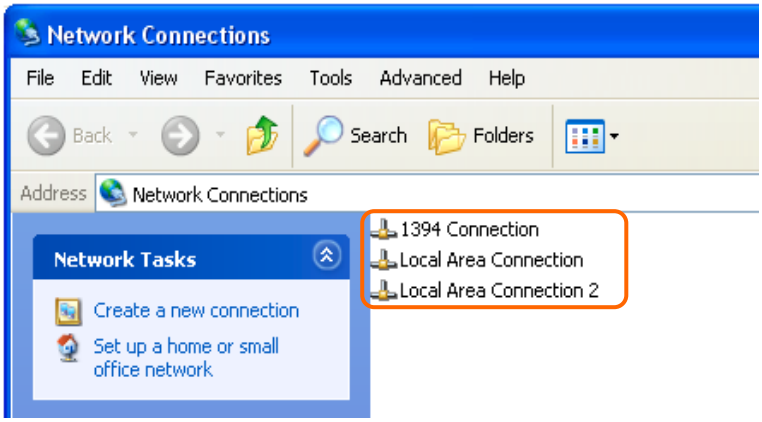
1.5 Get Your IP Automatically & Manually

After MT4205 connected with your computer, please make sure your IP is in the automatic IP position or you adjust it manually in order to activate the Internet network from home to Internet. If you don't know how to enter the settings, please follow the steps as below.

【Step 1】

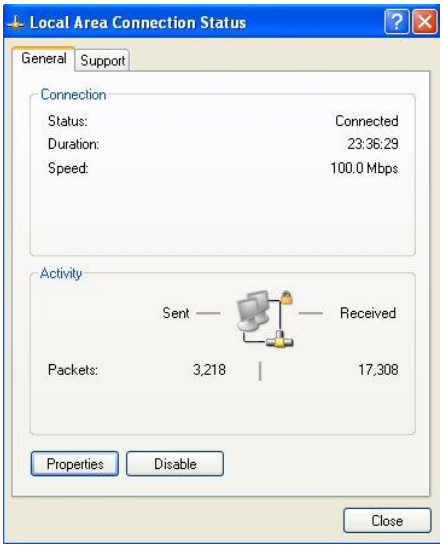
Go to **Start**>**Settings**> **Network Connections** and then select **Local Area Connection**.





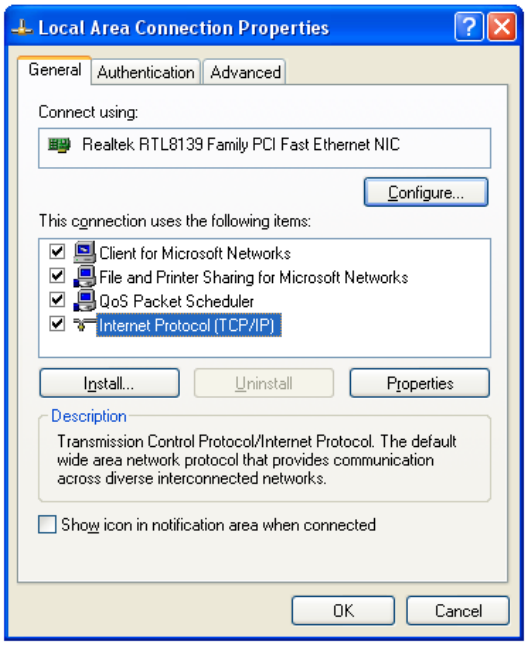
【Step 2】

Click on **Properties**



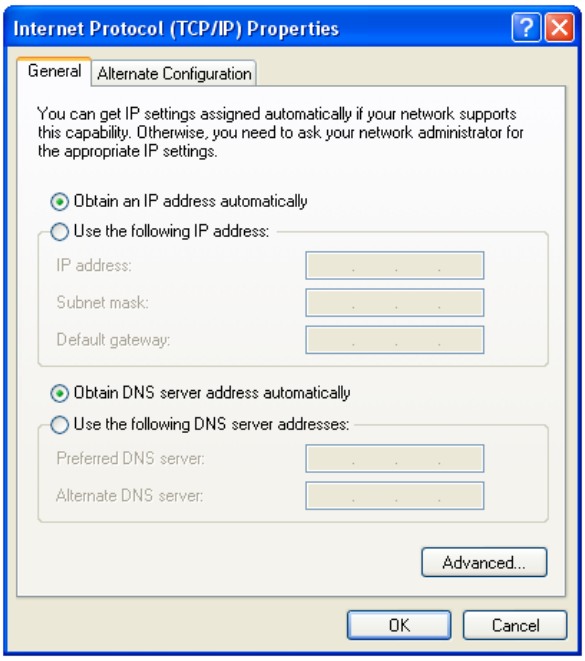
【Step 3】

Double click on **Internet Protocol (TCP/IP)**.



【Step 4-1】

For getting IP automatically if you are one of the users under MT4205, please skip **Use the following IP address** and then select **Obtain an IP address automatically** and **Obtain DNS server address automatically** and then click on **OK** button.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

【Step 4-2】

For getting IP manually in order to specify a Virtual Server, such as Print Server, FTP Server and so on, please skip **Obtain an IP address automatically** and then select **Use the following IP address**. And the following default setting of MT4205 should be noted:

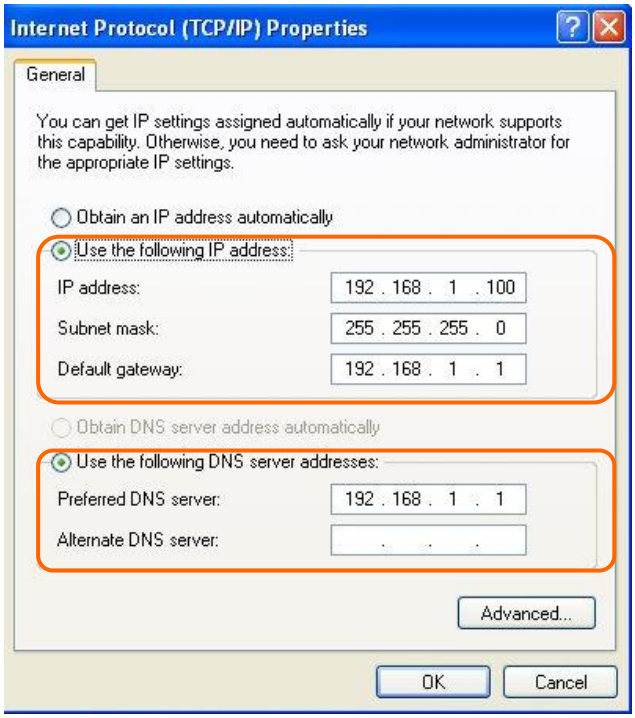
- IP Address：192.168.1.10 (as your Print Server for example)
- Subnet Mask：255.255.255.0
- Default Gateway：192.168.1.1

Notice: If you configure your computer's IP Address manually, it needs to be on the same network segment.

For example:

- IP Address: 192.168.1.xxx (xxx can be any number between 2 and 253, but it can't be repeated, we use 100 to be the example.)
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.1.1 (this is the IP address of MT4205 in Router Mode)
- DNS: 192.168.1.1 (use MT4205's IP address or on your own choice)

Notice: IP address and Default gateway cannot be the same.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 100
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 192 . 168 . 1 . 1
Alternate DNS server:
Advanced...
OK
Cancel

1.5.1 Network Testing

There are two ways to test your Network whether it can work on Internet or not. They are "Testing with Internet Browser" and "Testing with Dos".

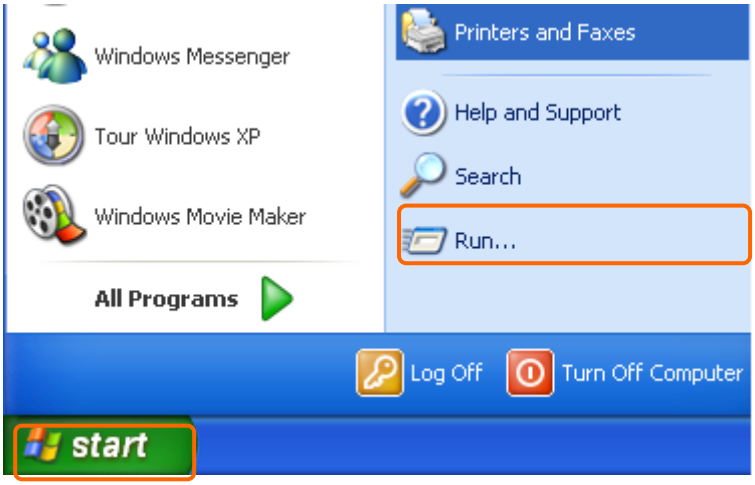
1.5.1.1 Testing with Internet Browser

Open an Internet Browser, such as Internet Explore or Netscape. Input a valid web address you like, for example, **http://www.yahoo.com** in the web address blank and then press enter. If the website appears, that means your Internet is working under normal situation.

1.5.1.2 Testing with DOS (Windows XP Platform)

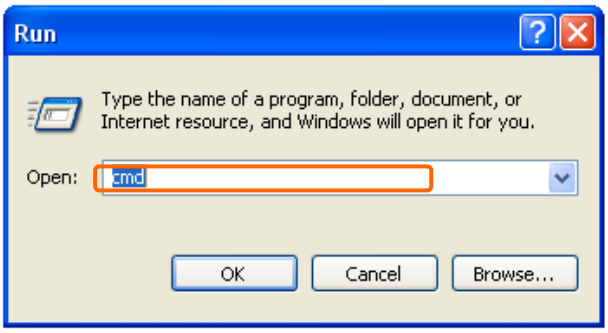
【Step 1】

Go to **start** > **Run**.



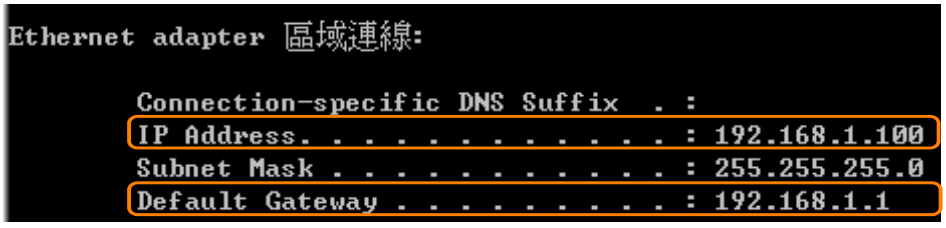
【Step 2】

Input **cmd** in the blank, and then click **OK** button. The Command Prompt window appears.



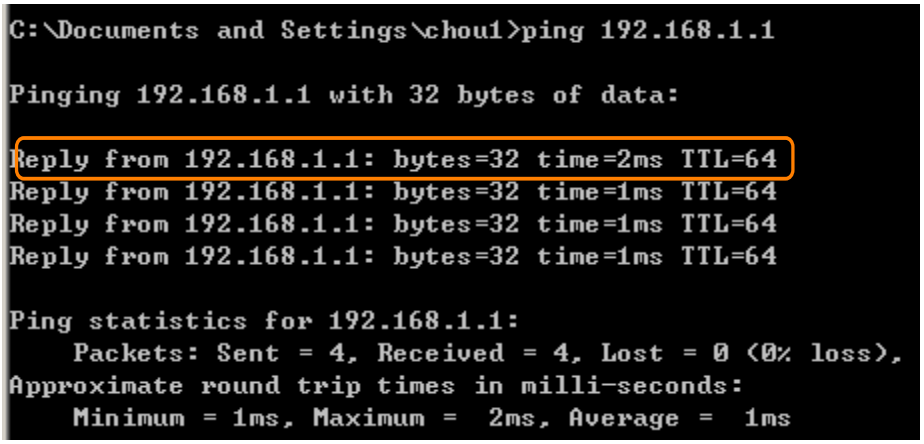
【Step 3】

Input **ipconfig** in the flashing area then press enter. You will get an IP Address 192.168.1.100, for example, and Default Gateway as 192.168.1.1.

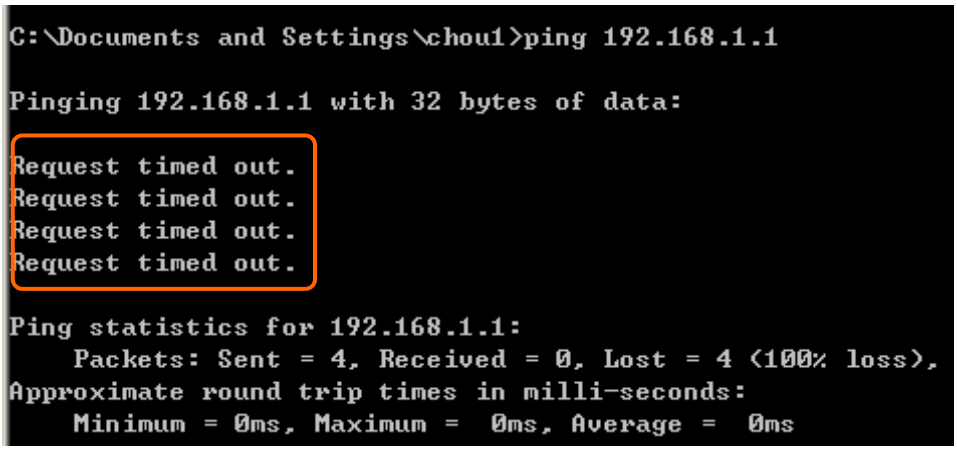

Ethernet adapter 區域連線:
Connection-specific DNS Suffix . :
IP Address. . . . . : 192.168.1.100
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1

【Step 4】

Ping a legal WAN Address such as 192.168.1.1. If Internet works, it will show **Reply from 192.168.1.1: bytes = 32 time = 3ms TTL =64,** for example.


C:\Documents and Settings\chou1>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=2ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms

If it can't work, it will show **Request timed out**.


C:\Documents and Settings\chou1>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

Chapter 2 Hardware Installation

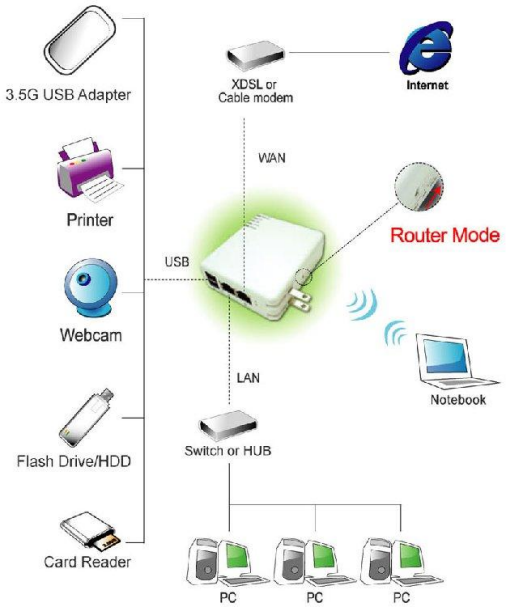
2.1 Diagram of Connecting Hardware to MT4205

MT4205 is a portable and convenient wireless solution for the traveling businessmen delivering 802.11g wireless connectivity with a maximum wireless signal rate of up to 54Mbps. Use it in conference rooms, hotel rooms, or even at hotspots. The Wireless Pocket Router/AP might be small in size, but is huge in functionality, supporting multiple operation modes, including Access Point (AP) mode, Router mode, and Wireless Client mode. You can switch among these modes easily by using MT4205's 3-way configuration slide switch. Moreover, there are 2 USB port support with MT4205; user can plug the USB devices, including Flash Disk, Web Camera, Printer and 3.5G USB Dongle.

Warning: Before sliding the switch modes, please power-off the router firstly. Moreover, please stay over 5 seconds between power-off / power-on condition.

2.1.1 Router Mode Hardware Connection and Application

When MT4205 switches to Router Mode, there will be each WAN and LAN port existing, the administrator can do the Quick Setup including WAN Setup, LAN Setup, Wireless Setup, Time Server Setup, Password Setup, USB Disk Management Setup, User Account Management Setup, Firewall Setup, QoS Setup, FTP Server Setup, Web Camera Setup, Print Server Setup and Samba Server Setup.



2.1.2 AP Mode Hardware Connection and Application

Under AP Mode, it supports 2 LAN ports as Bridge, and user can connect to MT4205 via LAN port or Wireless (WDS). The administrator can set up quickly, including LAN Setup, Wireless Setup, Time Server Setup, Password Setup, USB Disk Management Setup, User Account Management Setup, FTP Server Setup, Web Camera Setup, Printer Server Setup and Samba Setup.

2.1.3 Client Mode Hardware Connection and Application

As Client Mode, MT4205 will be a Wireless Adapter, and users can plug cable to each 2 LAN ports and then connect Internet via Wireless.

Chapter 3 Router Mode

3.1 Administrator Quick Setup Instruction

Make sure to switch the mode into Router Mode, then open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://192.168.1.1 (Default Gateway) into browser's blank.

Notice: If the homepage doesn't appear, please check if the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do it, please refer to "***1.5 Get your IP Automatically & Manually***".

Homepage

Please click on **Administrator** button to log in setup at first time, also any settings can be changed in the future. Only the Administrator has the right to modify all settings.

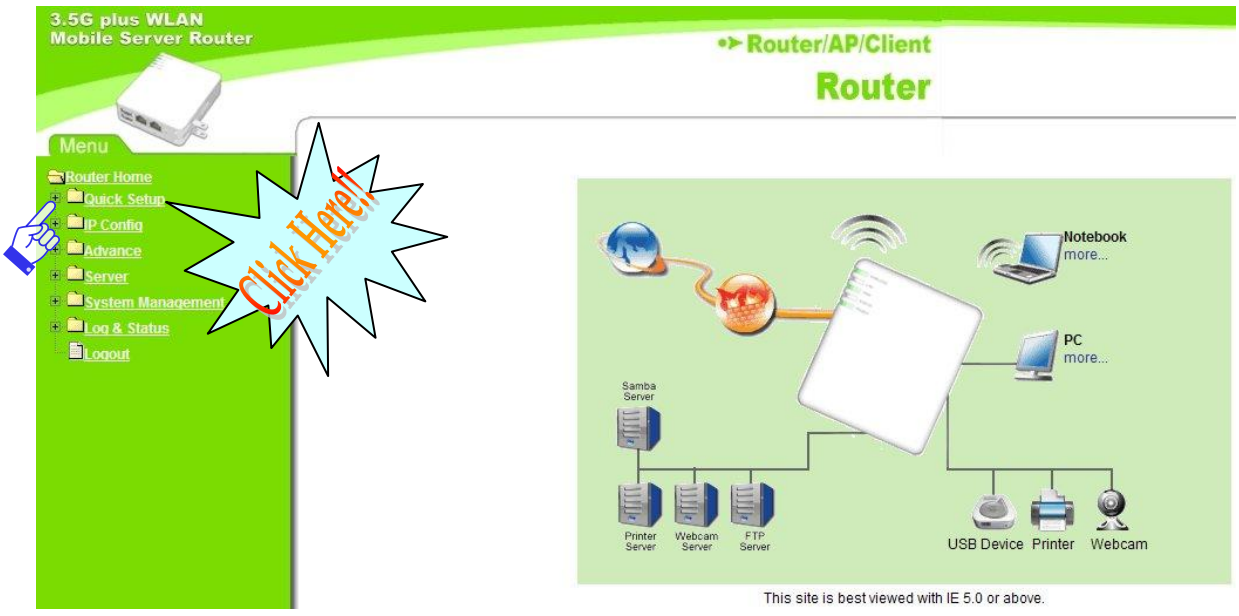
User Name and Password

The default values for User Name and Password are **admin** (all in lowercase letters). Click **Login** to enter.

Notice: Only the password can be changed, please read setup "***3.2.5 Password Setup***" or "***3.6.2 Change Password***". In order to protect your own settings, it's strongly recommended to change the password before you finish the Router Basic Setup.

3.2 Quick Setup

Typical Configuration Manager Page consists of two separate frames. The left frame contains all the means available for device configuration. Menus are indicated by file icons, and related menus are grouped into categories, such as LAN, WAN and etc., and indicated by folder icon, depending on whether the group of menus are expanded or not. You can click on any of these to display a specific configuration page. And the right frame is designed as a site map.



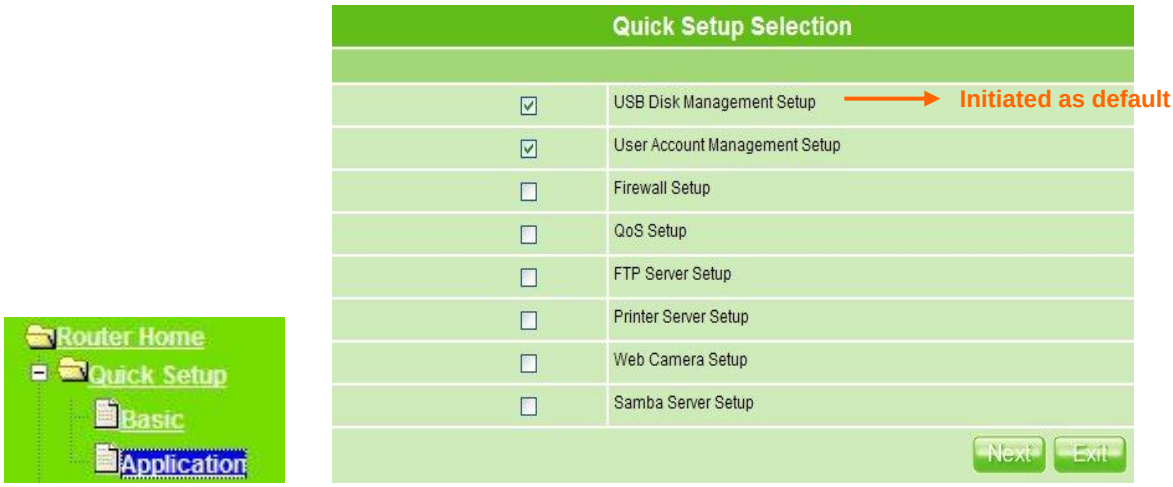
The above diagram shows all PCs and devices connected to your MT4205 and their status. Click **Quick Setup** on the left of the main menu. Then you'll see the full functionality selection screen appears and detailed settings for each item, including "**Basic**" and "**Application**" two parts.

Note: The device models named of USB Device, Webcam and Printer will be shown under the picture of each device if the product supports.

Quick Setup full function table list

- Click **Basic**, you see 5 major items set in Quick Setup Selection. Please click **Next** button after confirmed.

- Click **Application**, you see 8 major items set here, including USB Disk Management Setup, User Account Management Setup, Firewall Setup, QoS Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup. For the checked ones are recommended, all can be selected upon your demands.

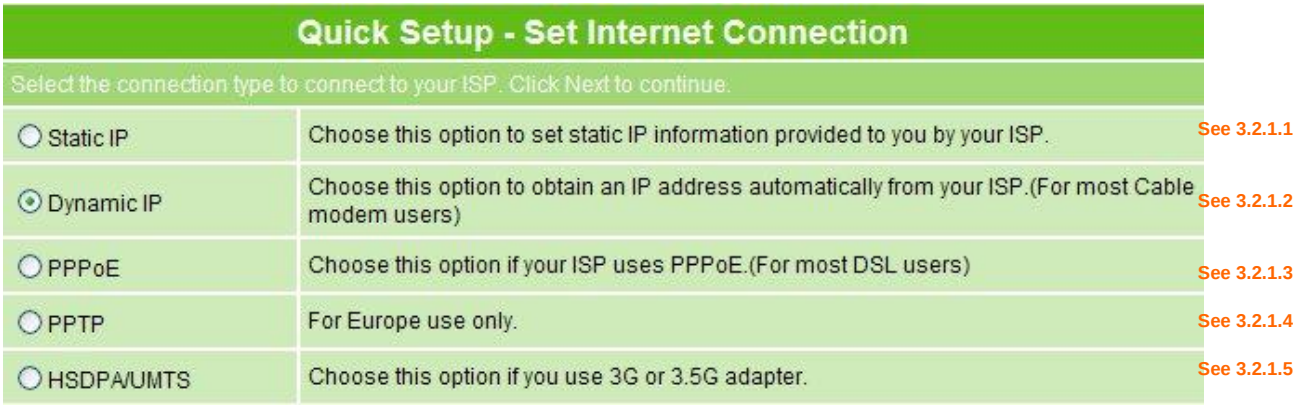


Quick Setup Instruction

- **WAN Setup:** Setup the connecting type provided by your ISP, 5 modes of WAN connection are supported by MT4205–Static IP, Dynamic IP, PPPoE, PPTP and HSDPA/UMTS.
- **LAN Setup:** Setup the IP Address for LAN and Group. If you are using the Router with multiple PCs on your LAN, you must connect the LAN via the Ethernet ports on the built-in Ethernet switch. You should also assign a unique IP address to each device residing on your LAN.
- **Wireless Setup:** Define the Wireless Mode, ESSID, TxRate, Channel and other wireless settings.
- **Time Server Setup:** Set time by NTP server or user defines.
- **Password Setup:** To change administrator's password.
- **USB Disk Management Setup:** View the entire data folder inside each storage devices, also can do formatting and disk partition.
- **User Account Management Setup:** Set maximum user number, account and right for using personal services of your MT4205 for each user.
- **Firewall Setup:** To enable Firewall and set security level.
- **QoS Setup:** To enable/disable QoS setup.
- **FTP Server Setup:** To enable FTP server and set controlling rules.
- **Printer Server Setup:** To enable /disable server.
- **Web Camera Setup:** To enable Web camera function and set image format.
- **Samba Server Setup:** To enable Samba server for shared documents and printer.

3.2.1 WAN Setup (Internet Connection)

WAN is short for Wide Area Network. The WAN settings can be referred to as the Public setting. All IP information in the WAN settings is public IP addresses which are accessible on the Internet. MT4205 supports 5 connection types to WAN. Select one of the WAN connection modes required by your ISP in the following Internet Connection Configuration page, the WAN setup pages will vary depending on what kind of WAN Type you select.


Quick Setup - Set Internet Connection
Select the connection type to connect to your ISP. Click Next to continue.
Static IP
Choose this option to set static IP information provided to you by your ISP.
See 3.2.1.1
Dynamic IP
Choose this option to obtain an IP address automatically from your ISP.(For most Cable modem users)
See 3.2.1.2
PPPoE
Choose this option if your ISP uses PPPoE.(For most DSL users)
See 3.2.1.3
PPTP
For Europe use only.
See 3.2.1.4
HSDPA/UMTS
Choose this option if you use 3G or 3.5G adapter.
See 3.2.1.5

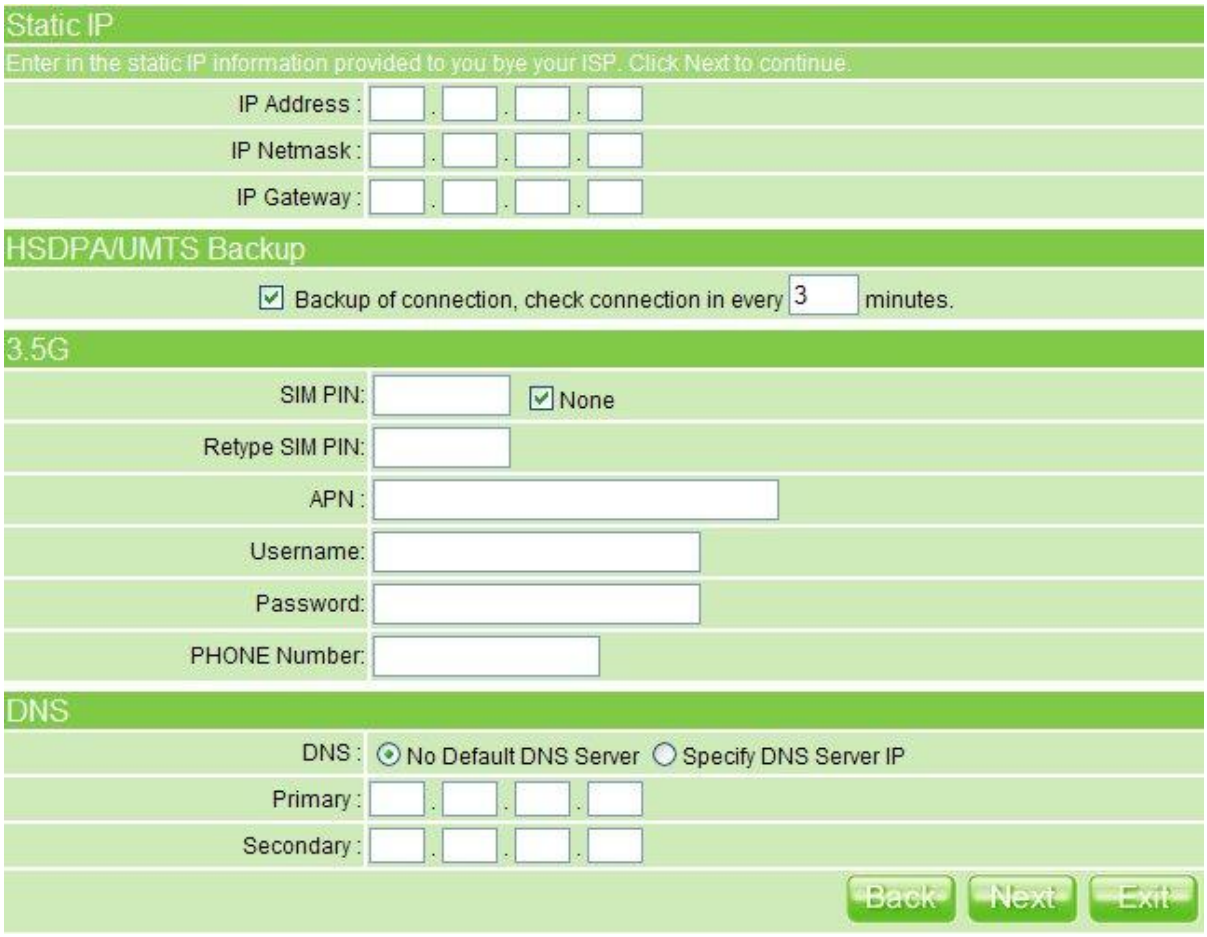
Choose your WAN type as the above mentioned, and its associated settings will show up underneath at the same time.

3.2.1.1 WAN Type – Static IP

Choose Static IP Address if all WAN IP information is provided to you by your ISP. You will need to enter the IP address, IP Netmask and IP gateway as provided. Each entered fields must be in the appropriate IP form, which are four IP octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format. If ISP provides you DNS information, please select **Specify DNS Server IP** and fill in **Primary** field at least; otherwise, **Domain Name** can't be used.

In particular, here provides 3G or 3.5G transmission rate when the device is plugged, either a 3.5G USB Dongle or Card Bus; just check to apply for the backup. In other words, once Static IP connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. The default interval between the two connection detection is 3 minutes. The interval range is from 1 to 3 minutes.

The 3.5G feature is working as mutual backup for other 4 WAN Types, and the required information is listed as follows, such as user name, password and SIM PIN etc. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original Static IP connection is back during the next detection.



Please click on **Next** button to go on ***3.2.2 LAN Setup***.

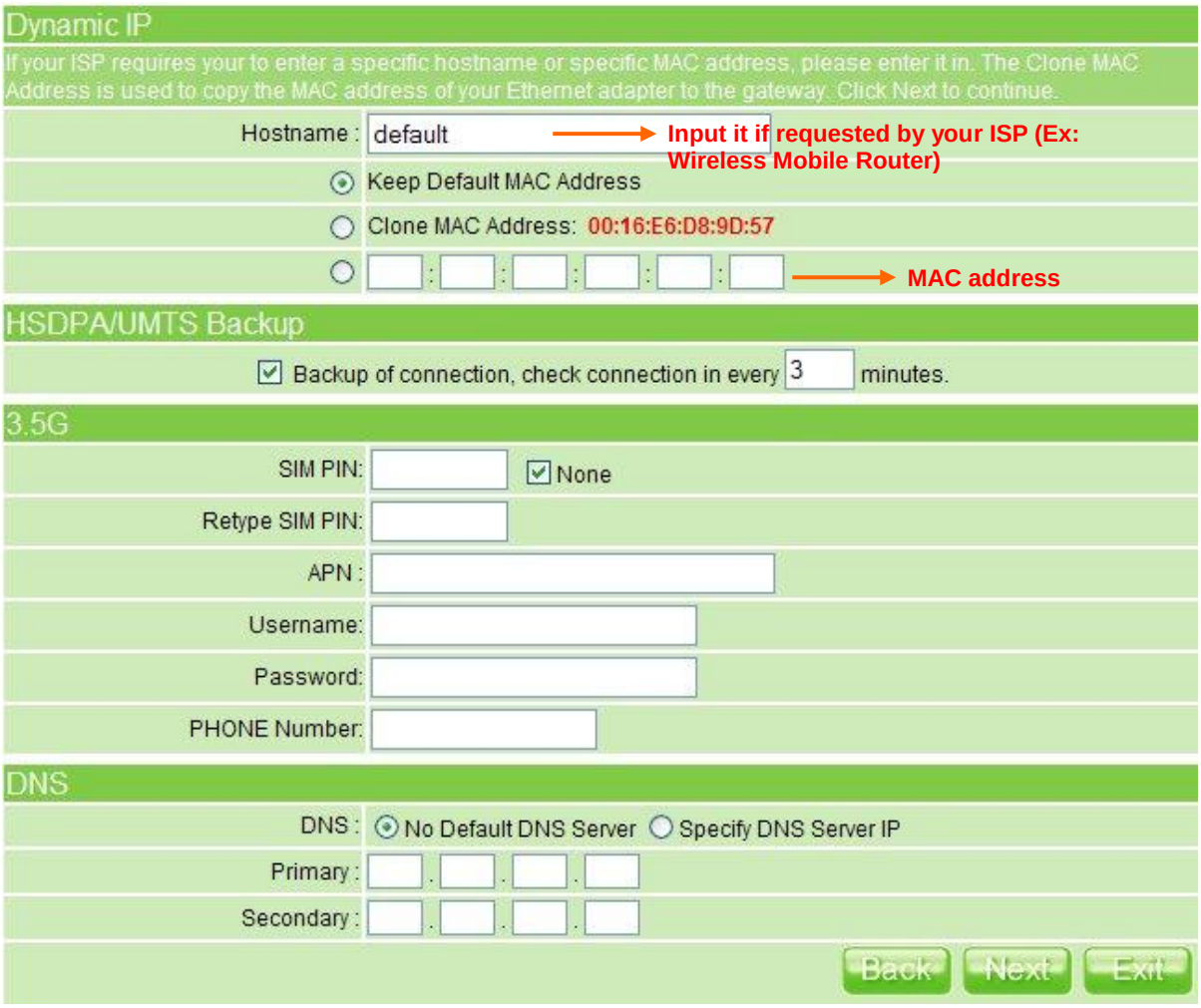
3.2.1.2 WAN Type – Dynamic IP

Choose Dynamic IP to obtain IP address information automatically from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for Cable modem services. If ISP provided you DNS information, please select **Specify DNS Server IP**; otherwise, select **No Default DNS Server**.

In particular, here provides 3G or 3.5G transmission rate when the device is plugged, either a 3.5G USB Dongle or Card Bus; just check to apply for the backup. In other words, once Dynamic IP connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. The default interval between the two connection detection is 3 minutes. The interval range is from 1 to 3 minutes.

The 3.5G feature is working as mutual backup for other 4 WAN Types, and the required information is listed as follows, such as user name, password and SIM PIN etc. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original Dynamic

IP connection is back during the next detection.


Dynamic IP
If your ISP requires your to enter a specific hostname or specific MAC address, please enter it in. The Clone MAC Address is used to copy the MAC address of your Ethernet adapter to the gateway. Click Next to continue.
Hostname : default
Input it if requested by your ISP (Ex: Wireless Mobile Router)
Keep Default MAC Address
Clone MAC Address: 00:16:E6:D8:9D:57
MAC address
HSDPA/UMTS Backup
Backup of connection, check connection in every 3 minutes.
3.5G
SIM PIN:
None
Retype SIM PIN:
APN :
Username:
Password:
PHONE Number:
DNS
DNS : No Default DNS Server Specify DNS Server IP
Primary :
Secondary :
Back
Next
Exit

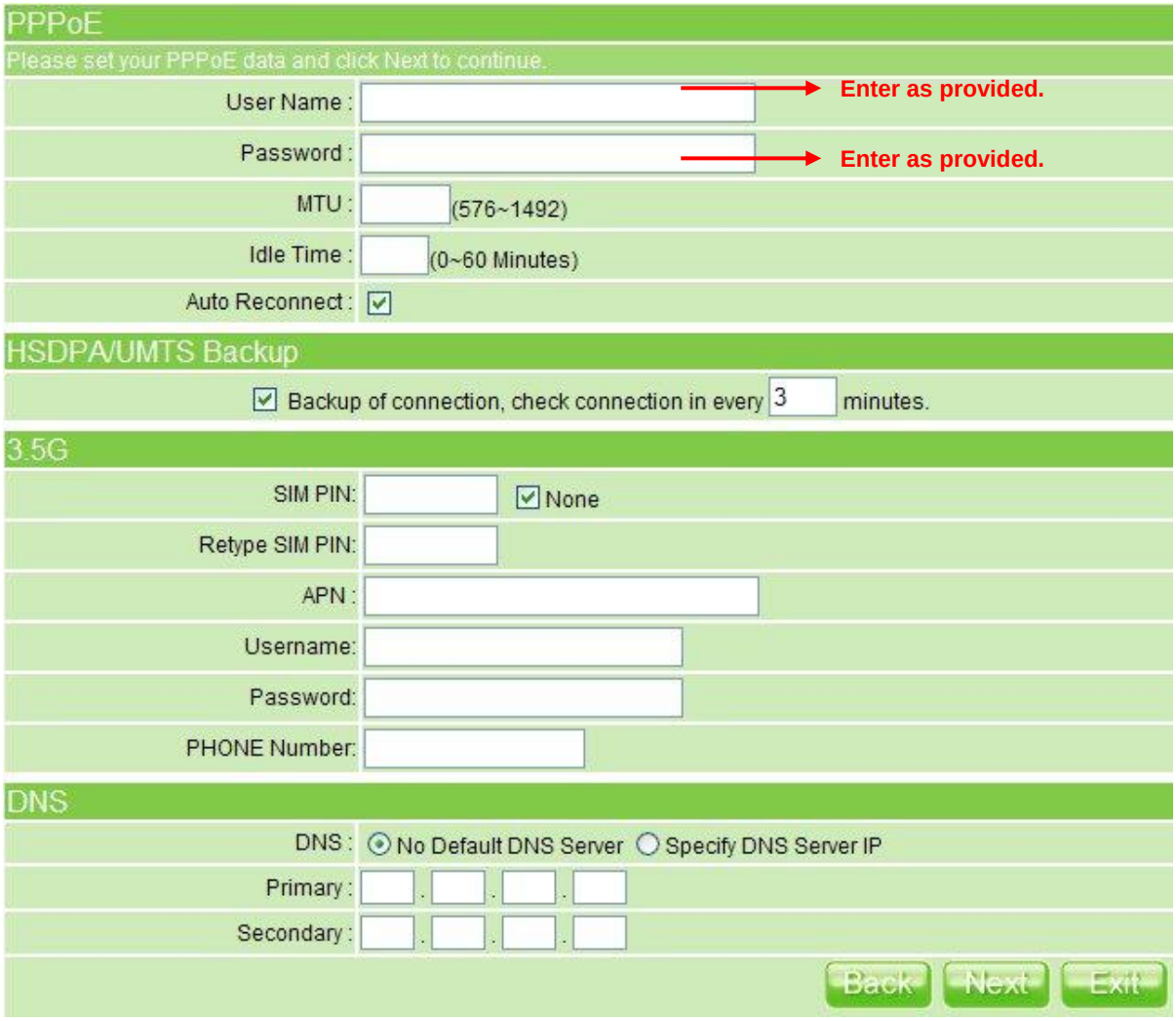
Click on **Next** button to go on ***3.2.2 LAN Setup***.

3.2.1.3 WAN Type – PPPoE

This option is typically used for DSL services. Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses PPPoE connection. Your ISP will provide you with a username and password. MTU stands for Maximum Transmission Unit. For PPPoE connections, you may need to change the MTU setting in order to work correctly with your ISP. As Idle Time, it's the amount of time of inactivity before disconnecting your PPPoE session. Enter an Idle Time (in minutes) to define and period of time for which the Internet connection is maintained during inactivity. If the Auto-reconnect enabled, the Router will automatically connect to your ISP after your system is restarted, or if the connection is dropped. If ISP provides you DNS information, please select **Specify DNS Server IP**; otherwise, select **No Default DNS Server**.

In particular, here provides 3G or 3.5G transmission rate when the device is plugged, either a 3.5G USB Dongle or Card Bus; just check to apply for the backup. In other words, once Dynamic IP connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. The default interval between the two connection detection is 3 minutes. The interval range is from 1 to 3 minutes.

The 3.5G feature is working as mutual backup for other 4 WAN Types, and the required information is listed as follows, such as user name, password and SIM PIN etc. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original PPoE connection is back during the next detection.



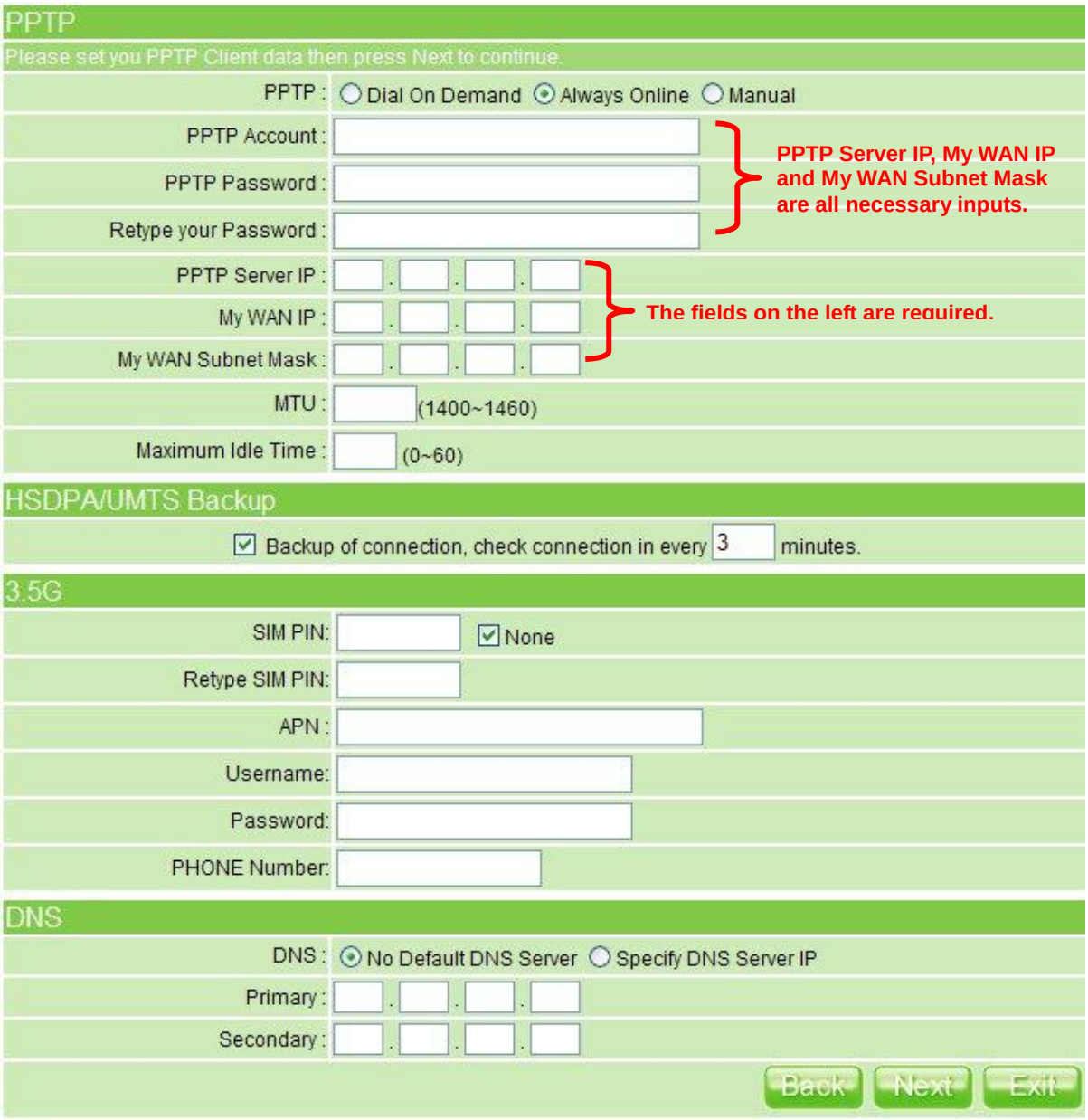
Click on **Next** button to go on ***3.2.2 LAN Setup***.

3.2.1.4 WAN Type – PPTP

This option is typically used for DSL services. Some DSL service providers supply a special DSL modem. This kind of modem only supports the PPTP tunnel to access the Internet, you should create a PPTP tunnel that carries a PPP session and terminates on the DSL model. Once the tunnel has been established, this kind of DSL modem will forward the PPP session to the ISP. As long as the PPP session is connected, all the local users will be able to share this PPP session to access to the Internet. If ISP provided you DNS information, please select **Specify DNS Server IP**; otherwise, select **No Default DNS Server**.

In particular, here provides 3G or 3.5G transmission rate when the device is plugged, either a 3.5G USB Dongle or Card Bus; just check to apply for the backup. In other words, once Dynamic IP connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. The default interval between the two connection detection is 3 minutes. The interval range is from 1 to 3 minutes.

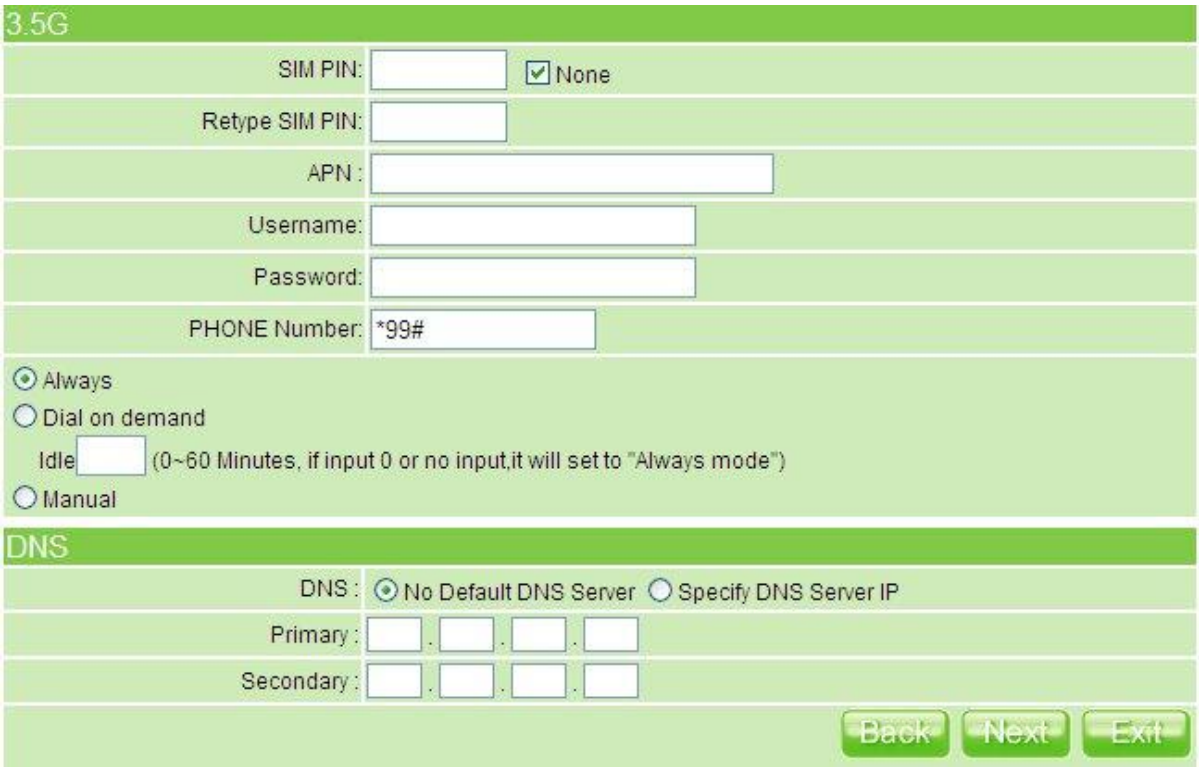
The 3.5G feature is working as mutual backup for other 4 WAN Types, and the required information is listed as follows, such as user name, password and SIM PIN etc. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original PPTP connection is back during the next detection.


PPTP
Please set you PPTP Client data then press Next to continue.
PPTP : Dial On Demand Always Online Manual
PPTP Account :
PPTP Password :
Retype your Password :
PPTP Server IP, My WAN IP and My WAN Subnet Mask are all necessary inputs.
PPTP Server IP :
My WAN IP :
My WAN Subnet Mask :
The fields on the left are required.
MTU : (1400~1460)
Maximum Idle Time : (0~60)
HSDPA/UMTS Backup
Backup of connection, check connection in every 3 minutes.
3.5G
SIM PIN: None
Retype SIM PIN:
APN :
Username:
Password:
PHONE Number:
DNS
DNS : No Default DNS Server Specify DNS Server IP
Primary :
Secondary :
Back Next Exit

Please enter the account's name and password which provided by your ISP, and then click on **Next** button to go on ***3.2.2 LAN Setup***.

3.2.1.5 HSDPA/UMTS

If you are using HSDPA/UMTS (3.5G connection) as the WAN Type, please check **HSDPA/UMTS** selection and fill in the required information as follows to directly access Internet via connected 3.5G adapter. At this moment, **Backup of Connection** is not available, for it is in use as the preferred—Always, Dial on demand or Manual. When 3.5G signal cannot be reached, the system starts to search downward for 3/2.75/2.5G signals until none existed.



- **Always**: Stay connected all the time. After the Quick Setup is finished, the Internet connection is on automatically. If disconnection is detected, the system will carry on re-connection immediately in order to stay online.
- **Dial on Demand**: Connect to the Internet when it is needed. After the Quick Setup is finished, the Internet connection is on automatically. When it is idled for the set-value (0~60 Minutes), the connection will be disconnected automatically. On the other hand, setting up the value as 0 or leaving it blank works the same as the above, **Always**.
- **Manual**: Connect to the Internet by setting up each time. After the Quick Setup is finished, user has to go to **Network Configuration** page to manually set up the connection and disconnection.

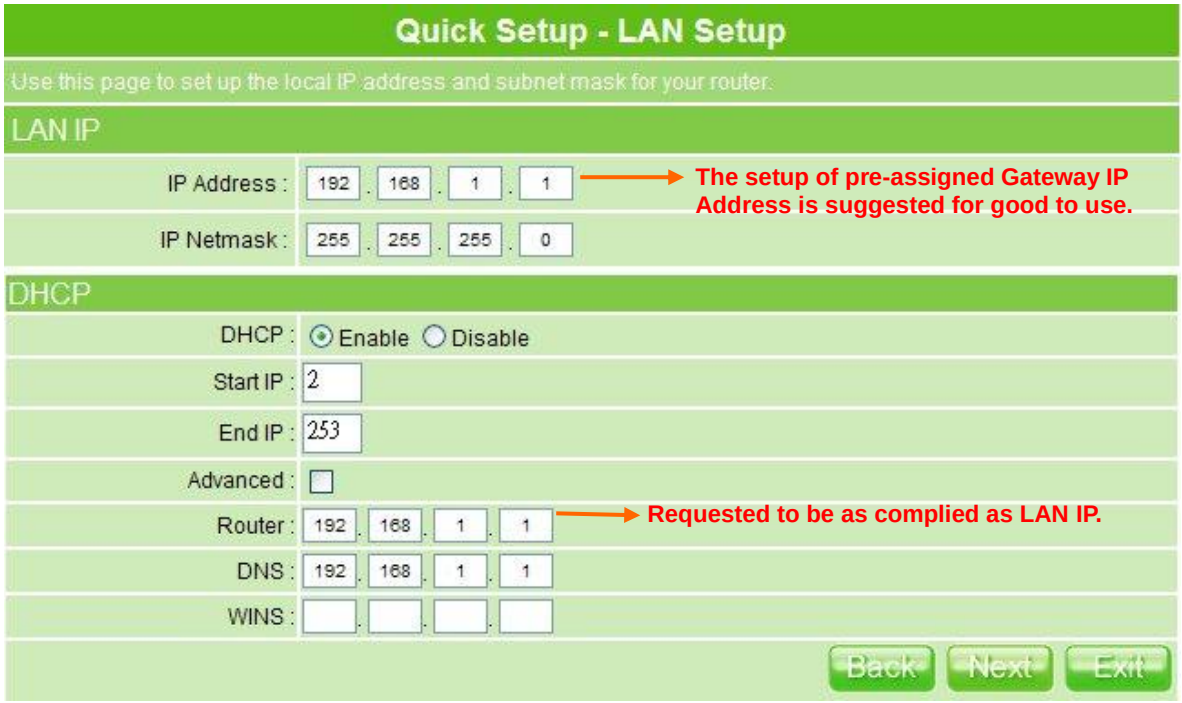
If ISP provided you DNS information, please select **Specify DNS Server IP**; otherwise, select **No Default DNS Server**.

Click on **Next** button to go on ***3.2.2 LAN Setup***.

3.2.2 LAN Setup

If you are using MT4205 with multiple PCs on your LAN, you must connect the LAN via the Ethernet ports on the built-in Ethernet switch. You must assign a unique IP address to

each device residing on your LAN. The LAN IP address identifies the router as a node on your network; that is, its IP address must be in the same subnet as the PCs on your LAN. The default LAN IP for the Internet Security Router is 192.168.1.1.

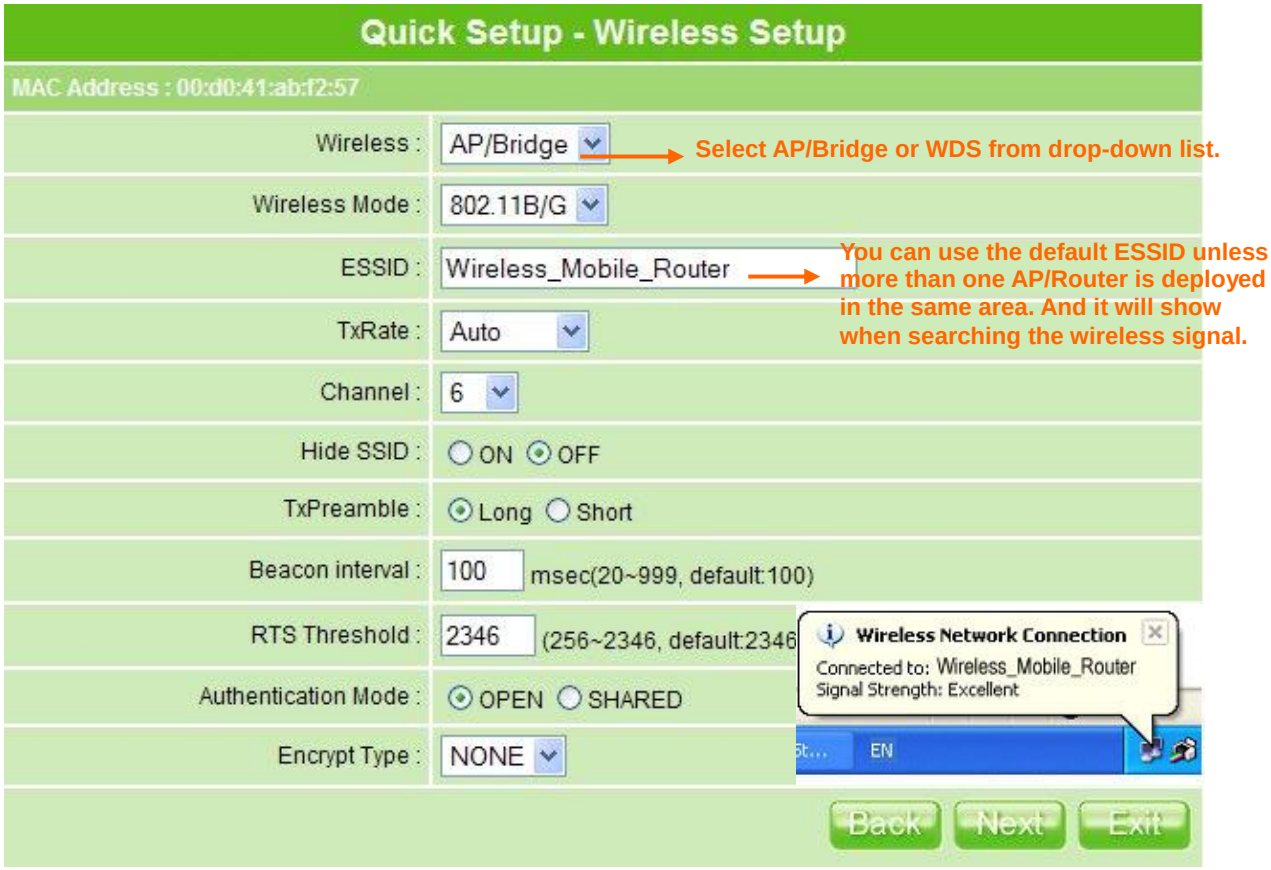

Quick Setup - LAN Setup
Use this page to set up the local IP address and subnet mask for your router.
LAN IP
IP Address : 192 . 168 . 1 . 1
The setup of pre-assigned Gateway IP Address is suggested for good to use.
IP Netmask : 255 . 255 . 255 . 0
DHCP
DHCP : Enable Disable
Start IP : 2
End IP : 253
Advanced :
Router : 192 . 168 . 1 . 1
Requested to be as complied as LAN IP.
DNS : 192 . 168 . 1 . 1
WINS :
Back
Next
Exit

For Gateway IP Address, the IP address 192.168.1.xxx (xxx can be any number between 1 and 254 that is not used by another device.) Please don't change the default LAN IP settings at this section until you have completed the rest of the configurations and confirm that your Internet connection is working. And the DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool.

Click on **Next** button to proceed.

3.2.3 Wireless Setup

MT4205 is based on industry standards to provide compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the router will allow you to access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.


Quick Setup - Wireless Setup
MAC Address : 00:d0:41:ab:f2:57
Wireless : AP/Bridge
Select AP/Bridge or WDS from drop-down list.
Wireless Mode : 802.11B/G
ESSID : Wireless_Mobile_Router
You can use the default ESSID unless more than one AP/Router is deployed in the same area. And it will show when searching the wireless signal.
TxRate : Auto
Channel : 6
Hide SSID : ON OFF
TxPreamble : Long Short
Beacon interval : 100 msec(20~999, default:100)
RTS Threshold : 2346 (256~2346, default:2346
Authentication Mode : OPEN SHARED
Encrypt Type : NONE
Wireless Network Connection
Connected to: Wireless_Mobile_Router
Signal Strength: Excellent
EN
Back
Next
Exit

For selecting configuration utility in AP/Bridge wireless connection, the **Channel 6** is the default channel; all devices on the network must be set to the same channel to communication on the network. The default **TxPreamble** setting is Long (if you use high traffic networks should use the shorter preamble type). **Authentication** is the security function to prevent the connection requests from unauthorized wireless clients. As the **Encryption Type**, select WEP or WPA can protect your data from eavesdroppers, if you do not need the encryption, select “None” to skip the following setting.

For selecting configuration utility in WDS wireless connection, please refer to ***3.3.3 Wireless*** for detail setting.

After checking each above blank and choose the suitable item as your demand, click on **Next** button to proceed to next setting.

Notice: If use AP/Bridge as wireless connection to router, here suggests disabling the DHCP setup in LAN Setup, please refer to ***3.2.2 LAN***.

3.2.4 Time Server Setup

The section provides time alteration. The Router keeps a record of the current date and time, which is used to calculate and report various performance data, but changing the

router's date and time does not affect the date and time on your PCs.

Quick Setup - Time Server
Please set your time and time zone in this page.
Local Time : 2007/05/01 Thu 08:16:12
Setup Time Use NTP
Default NTP Server : clock.stdtime.gov.tw (optional)
Time Zone : (GMT+08:00) Beijing, Hong Kong, Singapore, Taipei
Daylight saving time : Disable
User Setup
Set the Time : Year : 2004 Month : Jan Day : 01
Hour : 00 Minute : 00 Second : 00
Back Next Exit
Select your time zone from the "Time Zone" drop-down list or you may set the time by manual.

Select your time zone from the **Time Zone** drop-down list, or you may set the time manually; there is no real time clock inside the router, the system date and time are maintained by external network time server.

3.2.5 Password Setup

Here suggests changing the password for logging into the configuration manager in terms of security reason.

Quick Setup - Change Password
The router ships with no password.You may set a password or change your current password in this page.
Login : admin
Old Password :
New Password :
New Password (Confirm) :
Back Next Exit
The password may consist of A-Z, a-z, 0-9, underscores, and a single dot (.)

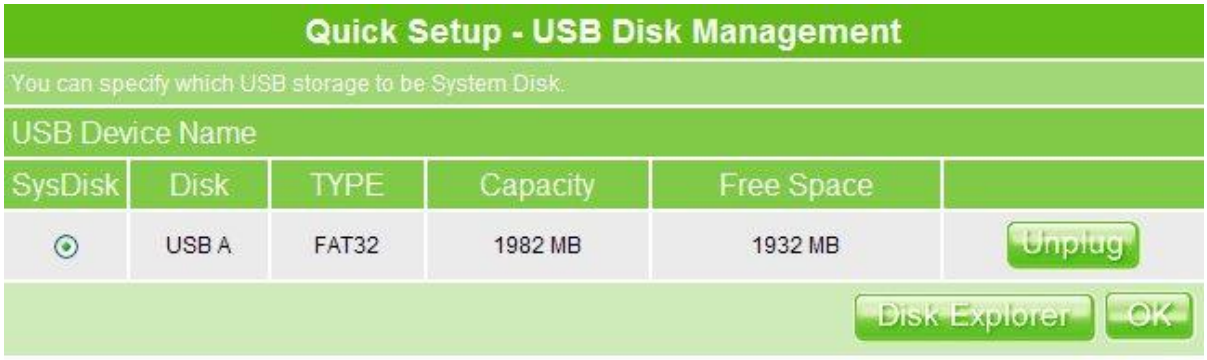
For changing password, please fills the password information into above blanks, and then click on **Next** button.

Notice 1: Only the password can be changed, the user name for administrator is **admin** and not to be changed.

Notice 2: If you forget administrator's password, please reset MT4205 to default setting by pressing the "Reset" button on the rear panel over 5 seconds. And the password will return to **admin**.

3.2.6 USB Disk Management Setup

Easy to check all the USB storage devices connected to your MT4205, view the entire data folder inside each storage device, and you can manage the disk formatting/partitioning via click on the button of this page.

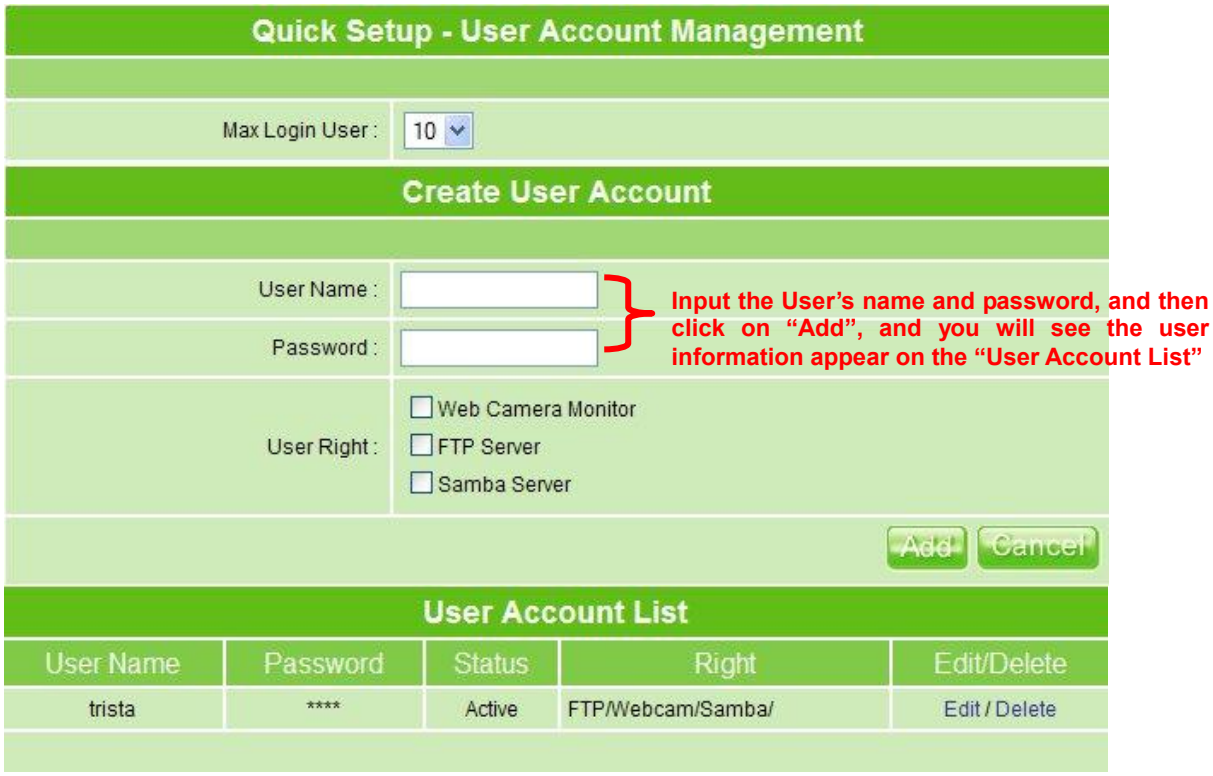


Select the USB Disk and click on **OK** button for refreshing all disks before you execute disk partition, and the **Unplug** button will appear. To partition/format the disk, please select the disk and click on **Format** button. Moreover, if you want to view the data inside the disk, please go to ***3.2.10 FTP Sever Setup*** to enable FTP server and then click on **Disk Explorer** to view all folders inside the device.

Notice: You have to click on **Unplug** button before removing the USB devices from MT4205.

3.2.7 User Account Management Setup

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and can be edited or deleted by clicking the meaning text.



Set each user's right and space arrangement, and then click on **Add** button for saving user's account. Click on **Next** button after finished.

3.2.8 Firewall Setup

The Firewall rules of MT4205 are an advance feature used to deny or allow traffic from passing through the router.

Firewall Protection Level :
High
*Attacks Blocking Policy: SPI Service Enabled, Blocking ICMP Ping from WAN, and All DoS Attacks.
*Inbound IP Filter Policy: Deny All
*Outbound IP Filter Policy: Deny All, But Outbound access is allowed to the following services: Telnet, FTP, HTTP, HTTPS, DNS, IMAP, POP3 and SMTP. (Please note that the Firewall will not block applications that use these services, such as Peer-to-Peer client applications or Internet Messengers.)
*Router Service Access Policy from WAN: Blocking Web, FTP, Webcam, and Printer.
Medium
*Attacks Blocking Policy: SPI Service Enabled, Blocking ICMP Ping from WAN, and Common DoS Attacks (SYN Flooding & ICMP Verbose).
*Inbound IP Filter Policy: Deny All
*Outbound IP Filter Policy: Allow All
*Router Service Access Policy from WAN: Blocking Web Management and Printer.
Low
*Attacks Blocking Policy: SPI Service Enabled, Blocking Common DoS Attacks (SYN Flooding & ICMP Verbose).
*Inbound IP Filter Policy: Allow All
*Outbound IP Filter Policy: Allow All
*Router Service Access Policy from WAN: Allow All
Back
Next
Exit

The default setting for Firewall Protection Level security is **Low**, which attacks Blocking Policy, allow all Inbound and Outbound IP Filter Policy, and allow all router service access policy from WAN. Please change it as your demand, and click on **Next** button to next step (see also **3.4.2.1 Firewall Configuration**).

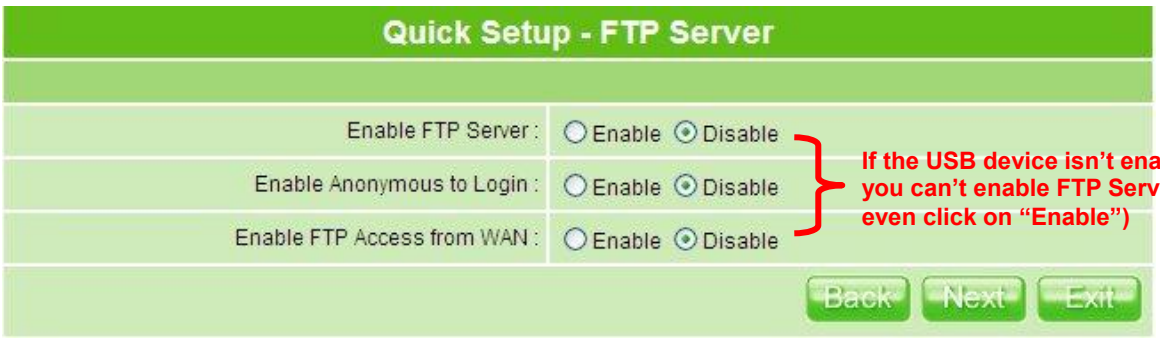
3.2.9 QoS Configuration Setup

QoS management helps to set and evaluate QoS policies and goals. It is the particular concern for the continuous transmission of high-bandwidth video and multimedia information. Transmitting this kind of content dependably is difficult in public networks using ordinary best effort protocols.

Make sure your connecting bandwidth with ISP and set the priority percentage. Once setting the QoS service, the transmitting performance will be affected, so please ensure your connection setting before doing this setup. Click on **Next** button to next step after finishing the above.

3.2.10 FTP Server Setup

MT4205 can be the FTP Server providing users to transmit files, also for the guest to download the files from assigned website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.



Set the FTP Server and related setting. Disable the function as demand, and click on Next button to continue.

3.2.11 Printer Server Setup

MT4205 supports LPR-protocol, as well as NetBIOS, and is convenient for sharing printer. In other words, it is an Internet access solution for your LAN/WAN, which provides you the shared web surfing, and supports USB interface printer. Any users in the same subnet of MT4205 can print their document via the network printers.

Enable the printer and click on **Next** button to next setup.

Notice: After above Printer Server in Quick Setup finished, the related printing settings on MT4205 and PC have to be set up, too. Please refer to ***3.5.4 Printer Server*** to set the details.

3.2.12 Web Camera Server Setup

If you plan to use MT4205 as a Web Camera site, connect a supported USB Web Camera to the USB port of MT4205. Check to enable the server and WAN access by demand.

Quick Setup - Web Camera Server
Enable webcam server :
Enable
Disable
Access from WAN :
Enable
Disable
Image format :
320*240
Back
Next
Exit
Make sure the webcam already connected to 3.5G plus WLAN Mobile Server Router, and then select "Enable" under your demand and situation; moreover, you have to make sure the "image format" which you want to see on the screen.

Click on **Next** button to next step.

Notice: Before webcam server enabled, please make sure the webcam has connected to the product; otherwise, the "Enable" selection can't be checked.

3.2.13 Samba Server Setup

MT4205 supports NetBIOS protocol, providing network neighbors to share file folders or printer.

Click on **Next** button to next setup.

3.2.14 Quick Setup Finish

The Quick Setup has been completed successfully when you see this screen.

To apply your new settings, please click on **Finish** button to reboot system automatically and go to the product's diagram homepage. You may connect to Internet via wired or wireless at this moment according to above settings.

3.3 IP Configuration

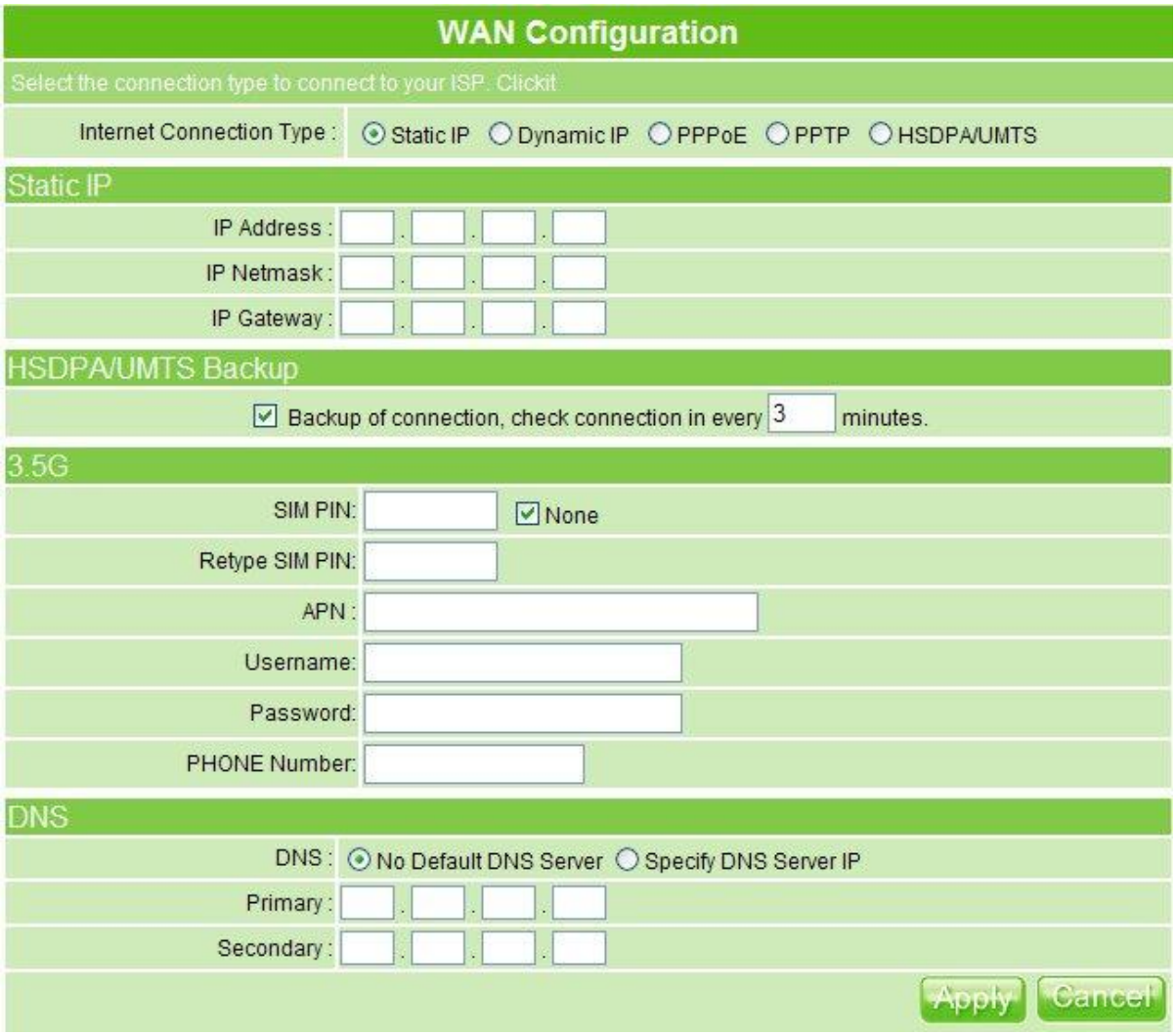
This function allows you to add routing rules into MT4205. It is useful if you connect several computers behind MT4205 to share the same connection to Internet.

3.3.1 WAN

Select **WAN** under the **IP Config** menu. MT4205 supports four WAN connection types, i.e. **Static IP Address**, **Dynamic IP Address**, **PPPoE**, **PPTP** and **HSDPA/UMTS**. Follow the instructions below for each to set up accordingly.

3.3.1.1 Static IP

The WAN (Wide Area Network) page shows the settings that are used to connect to your ISP (Internet Service Provider). Please select the **Static IP** for your specific ISP.



If you applied for a **Static IP** connection type from ISP, please follow the steps to set up your WAN connection.

1. **IP Address**
   Input your IP Address supplied by ISP. If you don't know, please check with your ISP.
2. **Subnet Mask**
   Input Subnet Mask, normally it is **255.255.255.0**.
3. **ISP Gateway Address**
   Input ISP Gateway Address. If you don't know, please check with your ISP.
4. **HSDPA/UMTS Backup**
   The default interval between the two connection detection is 3 minutes, and the range is from 1 to 3 minutes. Once Internet connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. Please check to activate or not.
5. **3.5G**

This feature requires user to enter user name, password and SIM PIN etc.; also it is working as mutual backup for other 4 WAN Types. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original connection is back during the next detection.

6. **DNS**

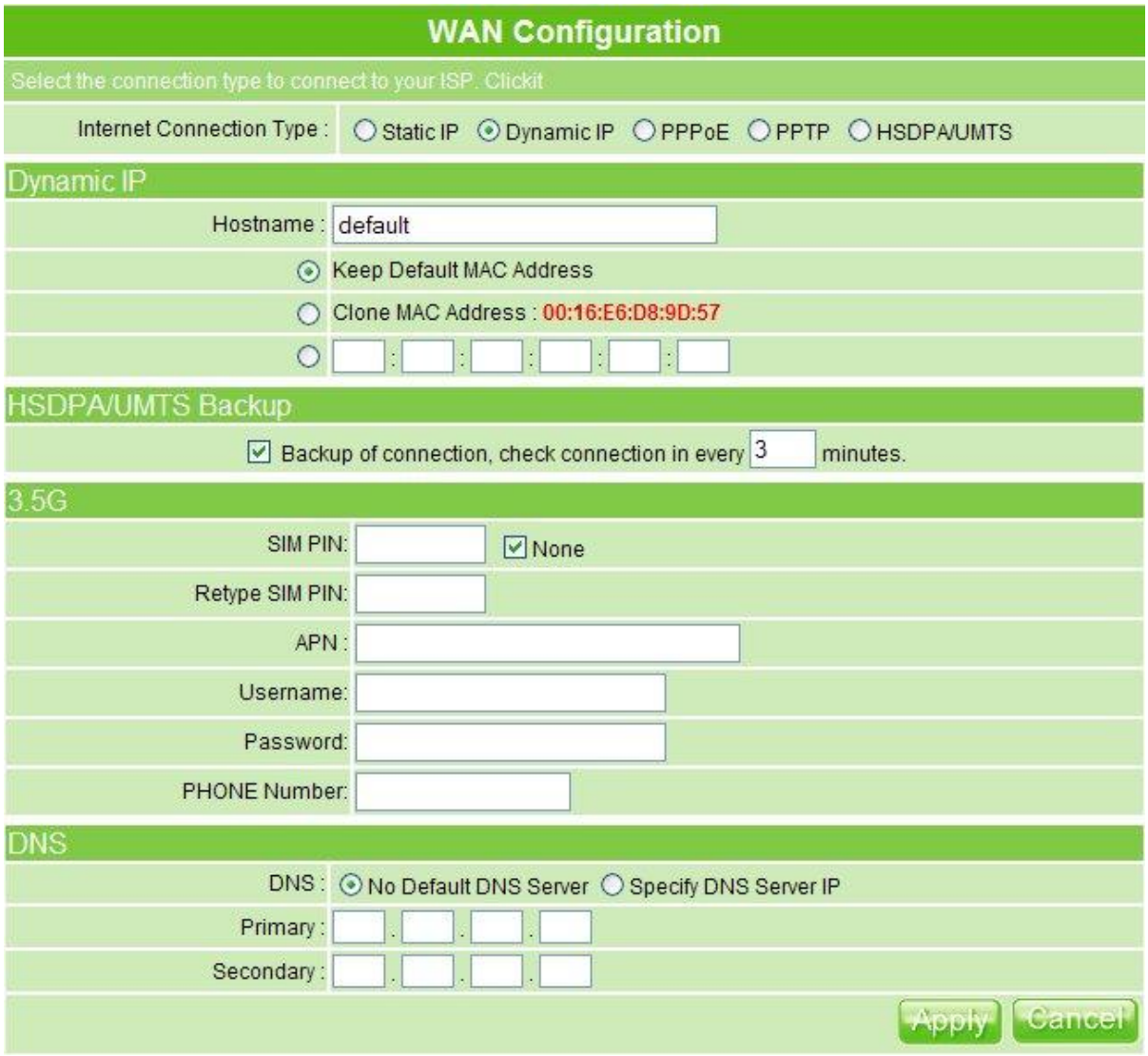
   If ISP provides you DNS information, please select **Specify DNS Server IP** and input the DNS information into the blank; otherwise, select **No Default DNS Server**.

7. **Apply & Cancel**

   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.3.1.2 Dynamic IP

If you applied for a **Dynamic IP** connection type from ISP, please follow the steps to set up your WAN connection. Cable modem providers typically use dynamic assignment of IP Address.



1. **Host Name**

   The host name is optional; but if your ISP requires you to input a specific host name, please put it in, for example, MT4205 applied from ISP. Generally, Cable Modem will provide the hostname information.

2. **MAC Address: Keep, Clone & Input MAC Address**

   Select **Keep** or **Clone MAC Address** for copying the MAC address of your Ethernet adapter to the gateway, or **input a group of MAC Address**. Generally, your ISP will inform you.

3. **HSDPA/UMTS Backup**

   The default interval between the two connection detection is 3 minutes, and the range is from 1 to 3 minutes. Once Internet connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. Please check to activate or not.

4. **3.5G**

   This feature requires user to enter user name, password and SIM PIN etc.; also it is

working as mutual backup for other 4 WAN Types. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original connection is back during the next detection.

5. **DNS**

   If ISP provides you DNS information, please select **Specify DNS Server IP** and input the DNS information into the blank; otherwise, select **No Default DNS Server**.

6. **Apply & Cancel**

   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.3.1.3 PPPoE

If you applied for a **PPPoE** connection type from ISP, please follow the steps to set up your WAN connection.

1. **User Name**

   Input your user name supplied by ISP. If you don't know, please check with your ISP.

2. **Password**

   Input your Password supplied by ISP.

3. **MTU**

   MTU stands for Maximum Transmission Unit. For PPPoE connection, you may need to set the MTU setting in order to work correctly with your ISP.

4. **Idle Time**

   It is the time of inactivity before disconnecting your PPPoE session. Enter an Idle Time (in minutes) to define a maximum period of time for which the Internet connect is maintained during inactivity. If the connection is inactive for longer than the defined Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

5. **Auto-reconnect**

   If checked, the Router will automatically connect to your ISP after your system is restarted or if the connection is dropped.

6. **HSDPA/UMTS Backup**

   The default interval between the two connection detection is 3 minutes, and the range is from 1 to 3 minutes. Once Internet connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. Please check to activate or not.

7. **3.5G**

   This feature requires user to enter user name, password and SIM PIN etc.; also it is working as mutual backup for other 4 WAN Types. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original connection is back during the next detection.

8. **DNS**

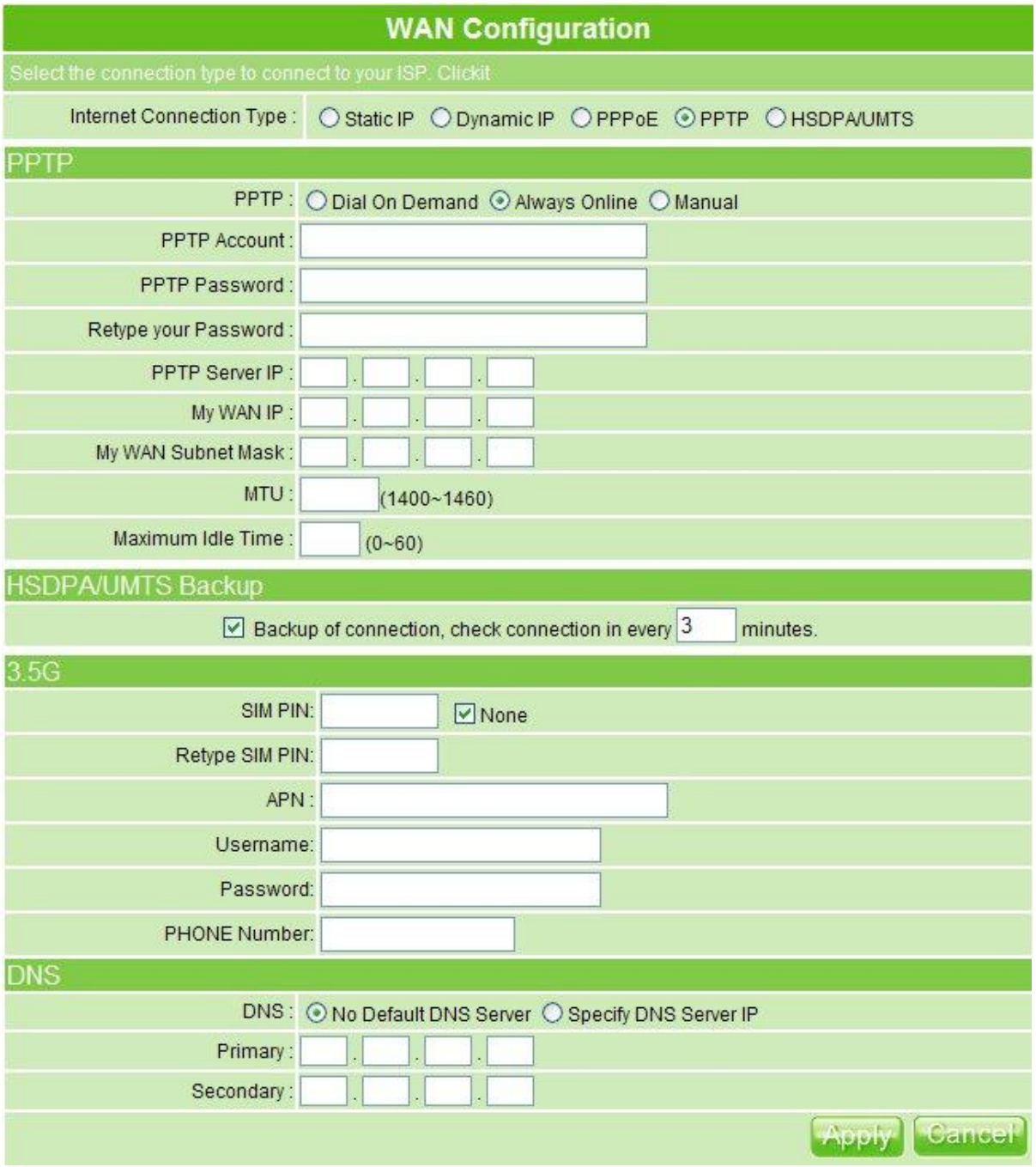
   If ISP provides you DNS information, please select **Specify DNS Server IP** and input the DNS information into the blank; otherwise, select **No Default DNS Server**.

9. **Apply & Cancel**

   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.3.1.4 PPTP

If you have applied for a **PPTP** connection type from ISP, please follow the steps to set up your WAN connection.



1. **PPTP**

   Select connect to PPTP by Dial On Demand, Always Online or Manual connects.

2. **PPTP Account**

   Input the PPTP Account supplied by ISP, MT4205, for example. If you don't know, please check with your ISP.

※ Notice: Don't copy the mentioned example as yours.

3. **PPTP Password**

   Input the Password supplied by ISP.

4. **Retype your Password**

   Retype the password into this blank for confirming.

5. **PPTP Server IP**

   Input the Server IP supplied by ISP. If you don't know, please check with your ISP.

   Input the WAN IP address provided by your ISP.

6. **My WAN Subnet Mask**

   Input the WAN Subnet Mask supplied by your ISP. If you don't know, please check with your ISP.

7. **MTU**

   MTU stands for Maximum Transmission Unit. For PPTP connections, you may need to set the MTU setting in order to work correctly with your ISP.

8. **Maximum Idle Time**

   It is the time of inactivity before disconnecting your PPTP session. Enter an Idle Time (in minutes) to define a maximum period of time for which the Internet connect is maintained during inactivity. If the connection is inactive for longer than the defined Idle Time, then the connection will be dropped. Either set this to zero or enable Auto-reconnect to disable this feature.

9. **HSDPA/UMTS Backup**

   The default interval between the two connection detection is 3 minutes, and the range is from 1 to 3 minutes. Once Internet connection is disconnected, the system automatically connects Internet via 3.5G adapter. If 3.5G signal is not available, it starts to search downward for 3/2.75/2.5G signals until none existed. Please check to activate or not.

10. **3.5G**

    This feature requires user to enter user name, password and SIM PIN etc.; also it is working as mutual backup for other 4 WAN Types. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original connection is back during the next detection.

10. **DNS**

    If ISP provides you DNS information, please select **Specify DNS Server IP** and input the DNS information into the blank; otherwise, select **No Default DNS Server**.

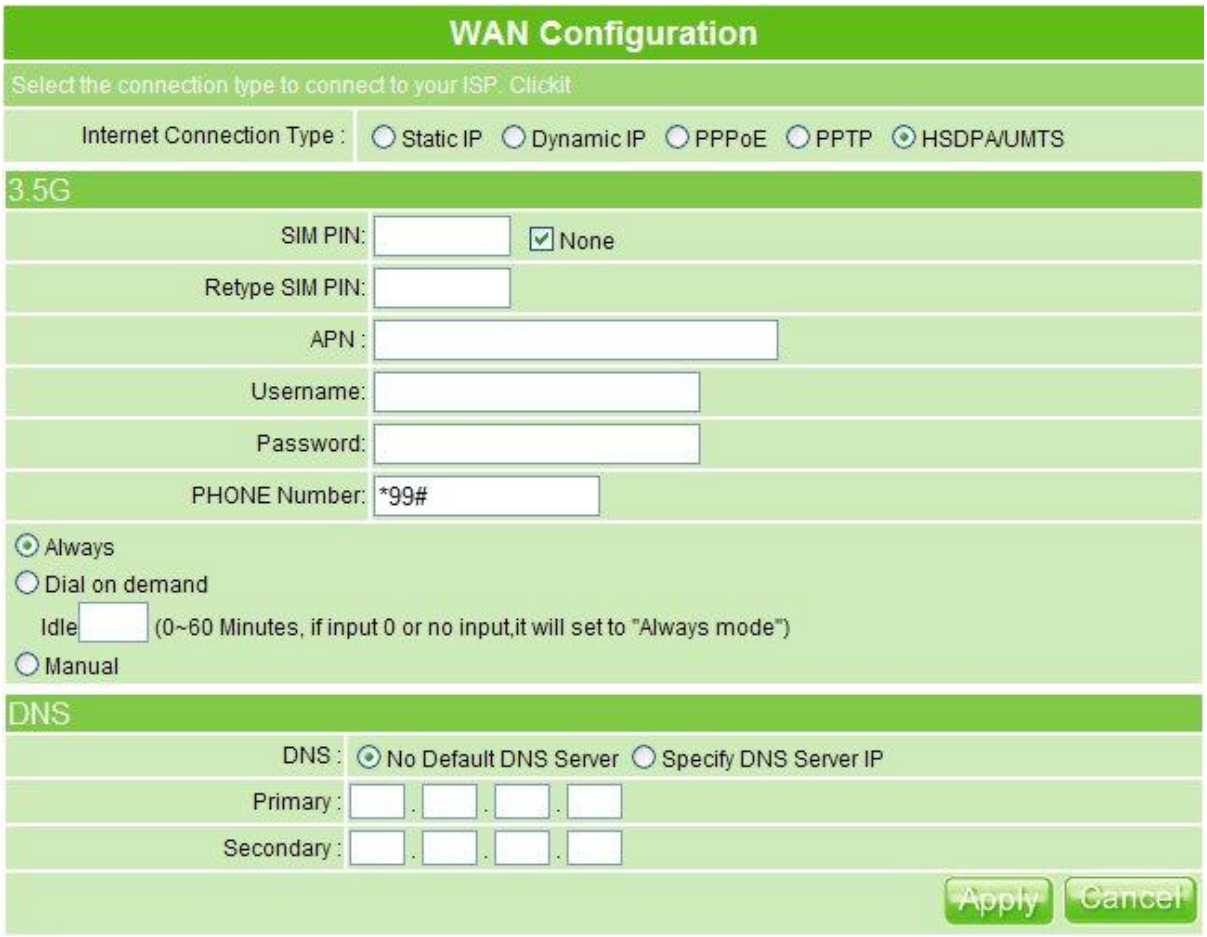
11. **Apply & Cancel**

    Click on **Apply** button to continue. Click on **Cancel** button to clean the setting on this page. If you don't know how to do, please click on **Help** button.

3.3.1.5 HSDPA/UMTS

If you have applied for a **HSDPA/UMTS** connection type from ISP, please follow the steps to set up your WAN connection. At this moment, **Backup of Connection** is not available.

When 3.5G signal cannot be reached, the system starts to search downward for 3/2.75/2.5G signals until none existed.



1. **3.5G**

   This feature requires user to enter user name, password and SIM PIN etc.; also it is working as mutual backup for other 4 WAN Types. That is, setting up the interval time to auto detect whether the Internet connection is lost or not. If yes, the system immediately switches to 3.5G Internet connection until the original connection is back during the next detection.

2. **Always**

   Stay connected all the time. After the Setup is finished, the Internet connection is on automatically. If disconnection is detected, the system will carry on re-connection immediately in order to stay online.

3. **Dial on Demand**

   Connect to the Internet when it is needed. After the Setup is finished, the Internet connection is on automatically. When it is idled for the set-value (0~60 Minutes), the connection will be disconnected automatically. On the other hand, setting up the value as 0 or leaving it blank works the same as the above, **Always**.

4. **Manual**

Connect to the Internet by setting up each time. After the Setup is finished, user has to go to **Network Configuration** page to manually set up the connection and disconnection.

5. **DNS**

   If ISP provides you DNS information, please select **Specify DNS Server IP** and input the DNS information into the blank; otherwise, select **No Default DNS Server**.

6. **Apply & Cancel**

   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.3.2 LAN

Use this page to set up the local IP address and subnet mask for your router. Please select **LAN** under the **IP Config** menu and follow the instructions below to enter the LAN setting page to configure the settings you want.

1. **IP Address**

   The default value of LAN IP address is **192.168.1.1** for this router.

2. **IP Netmask**

   Input Subnet Mask, normally it is **255.255.255.0**.

3. **DHCP**

   Enable or disable DHCP services. The DHCP server will automatically allocate an unused IP address from the IP address pool to the requesting computer if enabled.

4. **Start IP**

   This field specifies the first address in the pool to be assigned by the DHCP server in your local network. The default setting is 2.

5. **End IP**

   This field specifies the last address in the pool to be assigned by the DHCP server in your local network. The default setting is 253.

6. **Advanced**

   Enable the advance setting and then setup the Router, DNS and WINS value.

7. **Router**

   This field indicates the IP address of DNS to provide to clients that request IP Address from DHCP Server, the default setting is the same with LAN IP address.

8. DNS

This field indicates the IP address of DNS to provide to clients that request IP Address from DHCP Server, the default setting is the same with LAN IP address.

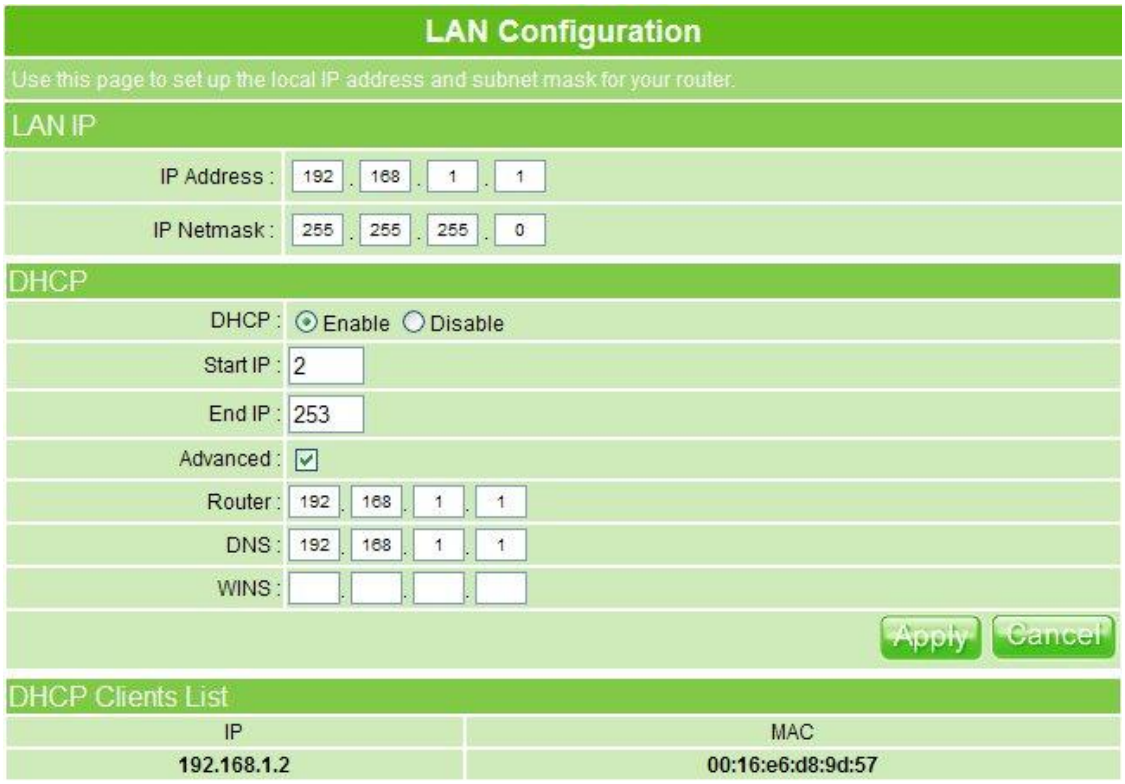
9. WINS

The Windows Internet Naming Service manages interaction of each PC with the Internet. If you use a WINS server, enter IP Address of server here.

10. Apply & Cancel

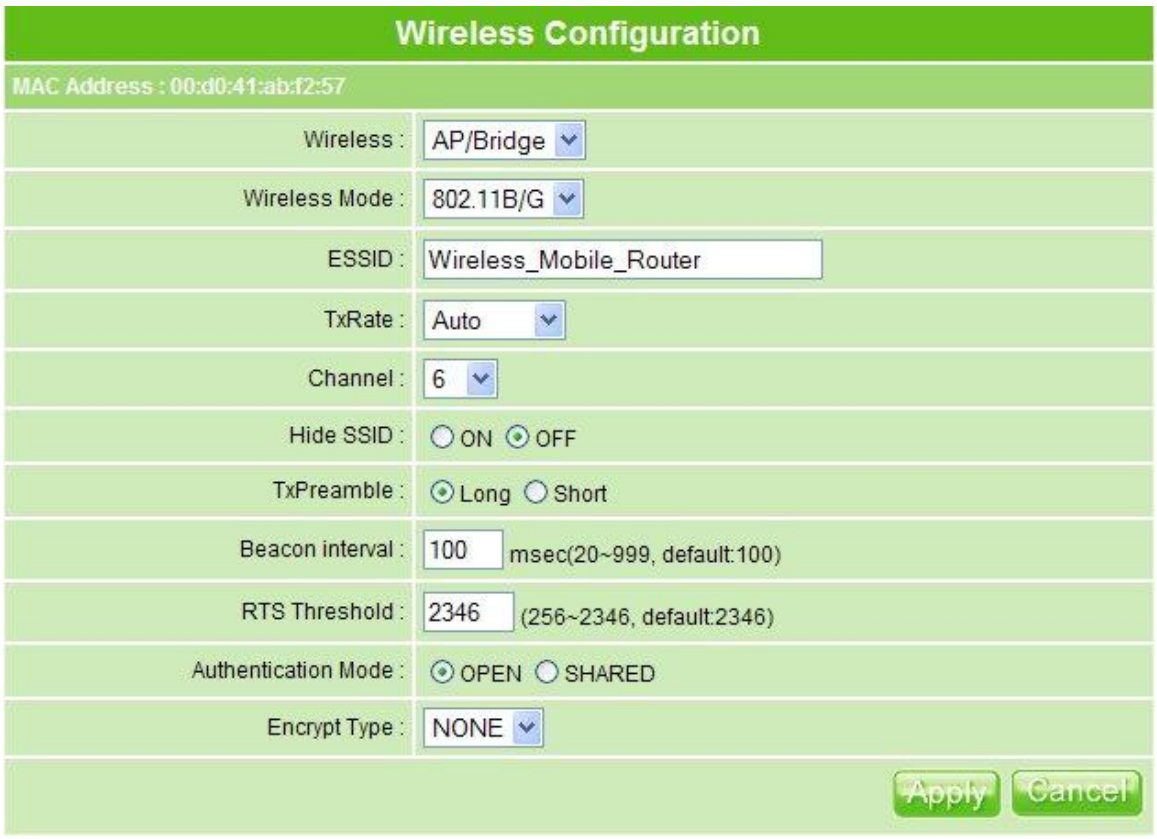
Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

Besides, the DHCP information will be listed below, like DHCP Clients list, including IP Address and MAC address.


LAN Configuration
Use this page to set up the local IP address and subnet mask for your router.
LAN IP
IP Address : 192 . 168 . 1 . 1
IP Netmask : 255 . 255 . 255 . 0
DHCP
DHCP : Enable Disable
Start IP : 2
End IP : 253
Advanced :
Router : 192 . 168 . 1 . 1
DNS : 192 . 168 . 1 . 1
WINS : . . . .
Apply Cancel
DHCP Clients List
IP
MAC
192.168.1.2
00:16:e6:d8:9d:57

3.3.3 Wireless

MT4205 enables fastest 54 Mbps IEEE802.11g wireless transmissions and keeps compatibility with existing IEEE 802.11b devices. MT4205 complies with IEEE 802.11b standard. Please select **Wireless** under the main menu. Follow the instructions to configure the **Wireless** settings.



1. **Wireless**

   Select **AP/Bridge** or **WDS** to allow or disallow the wireless operation.

2. **Wireless Mode**

   This field indicates the 802.11g interface mode. “802.11G” prevents the 802.11b clients from accessing the router. “802.11B/G” allows both 802.11b and 802.11g clients to access the router. “802.11B” will enable the network as an 802.11b wireless network. By default, the mode is “**802.11B/G**”.

3. **ESSID**

   You can use the default ESSID and radio channel unless more than one MT4205 or access point is deployed in the same area. Under this situation, it is advised that you should use a different ESSID and radio channel for each of MT4205 or access point in order to distinguish from each other. All of MT4205s and your wireless LAN cards must have the same ESSID to allow a wireless mobile client roaming inbetween. By default, the ESSID is set to **Wireless_Mobile_Router**.

4. **TxRate**

   Select the transmission rate for the network. The default setting is **Auto.**

5. **Channel**

   IEEE 802.11g and 802.11b devices are direct sequence spread spectrum devices that spread a radio signal over a range of frequencies. The range of frequencies used by a direct sequence device is called Channel.

   The 802.11g and 802.11b specification supports up to 14 overlapping Channels for radio communication. But only 11 Channels are supported in the United States and therefore built-in on MT4205. To minimize interference, configure each of MT4205 to use Non-overlapping channels. Non-overlapping channels have 25 MHz separation beginning at the first allowed channel for the country (for the US and most of Europe, channel 1, 6 & 11 are used.)

   Make sure that MT4205 sharing the same Channel (or Channels close in number) is as far away from each other as possible, based on the results of your site survey of the facility. You can find the site survey utility in MT4205's setup CD. By default, the channel is **6**.

6. **Hide SSID**

   This term is used to increase the security level. Check it to hide SSID information against the wireless clients that are sniffing radio. By default, this option is inactive.

7. **TxPreamble**

   The default **TxPreamble** setting is Long (if you use high traffic networks should use the shorter preamble type)

8. **Beacon Interval**

   Beacons are packets sent by an access point to synchronize a wireless network. Specify a beacon interval value. Default (100) is recommended.

9. **RTS Threshold**

   This value should remain at its default setting of 2346. If you encounter inconsistent data flow, only minor modifications to the value range between 256 and 2346 are recommended

10. **Authentication Mode**

    Four authentication methods are supported: Open and Shared. Select **Open**, your wireless network would be intruded by anonymous. Not only your network bandwidth would be shared; but also transmitting data might be intercepted. Select **Shared** function and it can be taken effect.

11. **Encrypt Type - WEP**

    There are two types of encrypt type can be selected, including WEP and WPA.

    WEP Encryption: Enabling WEP can protect your data from eavesdroppers. If you do not need this feature, select "None" to skip the following setting. MT4205 supports both 64-bit and 128-bit encryption using the Wired Equivalent Privacy (WEP) algorithm. Select the type of encryption you want to use (64 or 128 bit) and configure one to four

WEP Keys. The “1280bit” method is more secure than the “64-bit”.

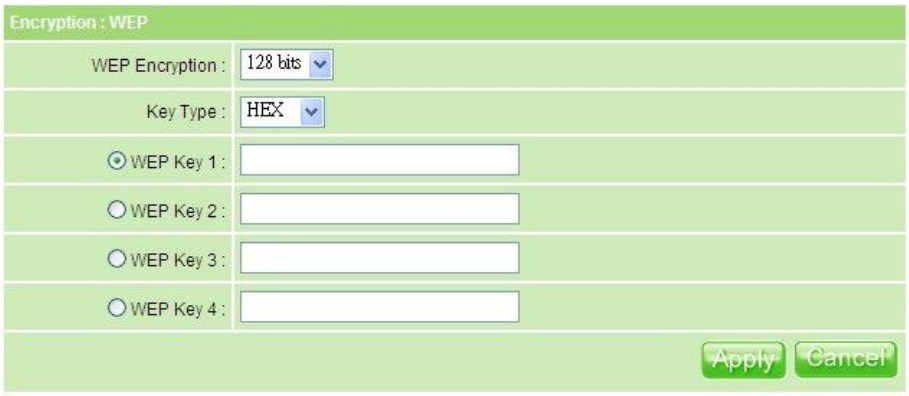
Key Type: For 64bits WEP key, either 5 ASCII characters or 10 hexadecimal digitals leading by **0x** can be entered. For 128bits WEP key, either 13 ASCII characters or 26 hexadecimal digits leading by **0x** can be entered.

Note: 128 bits WEP is most secure, but has more encryption/decryption overhead. Note that all wireless devices must support the same WEP encryption bit size and have the same key. Four keys can be entered here, but only one key can be selected at a time. The keys can be entered in ASCII or Hexadecimal. Select the item from drop-down list you wish to use.

Pass phrase: Automatically generate four WEP keys. A WEP key is either 10 or 26 hexadecimal digits (0~9, a~f, and A~F) based on whether you select 64 bit or 128 bit in the WEP drop-down menu. Type a combination of up to 64 letters, numbers, or symbols in the blank, MT4205 uses an algorithm to generate four WEP keys for encryption. If you want to type in the keys manually, leave this field blank.

Note: This function eases users from having to remember their passwords. But this isn’t as secure as manual assignment.

WEP Key: At most four keys can be set. A WEP key is either 10 or 26 hexadecimal digits (0~9, a~f, and A~F) based on whether you select 64 bit or 128 bit in the WEP drop-down list. MT4205 must have at least the same default key.



12. Encrypt Type - WPA

The WPA encrypts each frame transmitted from the radio using the pre-shared key (PSK) which entered from this panel or a key got dynamically through 802.1x.

WPA-PSK (TKSP): Allow the access from WPA clients simultaneously and the encryption keys are given from PSK respectively.

WPA Rekey Timer: Allows for the session keys to be refreshed over time, minimizing the amount of data that is encrypted with the same session key.

ASKII: The 8~63 ASCII characters can be entered, for example, “0123456789ABCD….”

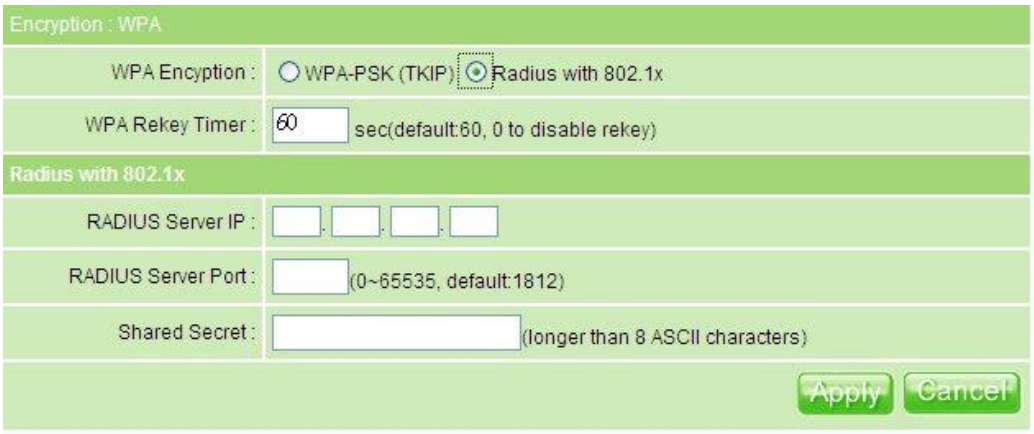
Radius with 802.x: Check this circle to enable Radius client function.

WPA Rekey Timer: Allows for the session keys to be refreshed over time, minimizing the amount of data that is encrypted with the same session key.

RADIUS Server IP: The IP address of RADIUS server.

RADIUS Server Port: The UDP port number that the RADIUS server is listed. The default value is 1812.

Shared Secret: The RADIUS server and client share a secret that is used to authenticate the messages sent between them. You must configure both sides to sue the same shared secret.

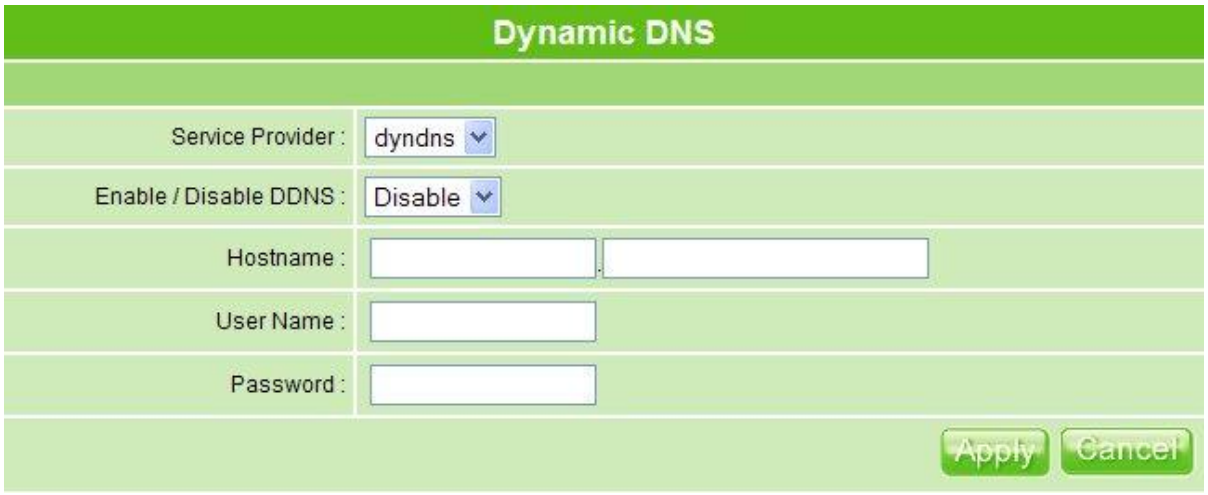


13. Apply & Cancel

Click on **Apply** button to save the settings. If you want to clear the settings, please click on **Cancel** button. The functional button, **Cancel** can take effect after clicking on **Apply** button.

3.3.4 DDNS

Dynamic DNS allows you to make an assumed name as a dynamic IP address to a static hostname. Please configure the dynamic DNS below. Please select **DDNS** under the **IP Config** menu, and follow the instructions below to enter the **DDNS** setting page to configure the settings you want.



1. **Service Provider**

   Choose correct Service Provider from drop-down list, here including dyndns, dhs, ods and tzo embedded in MT4205.

2. **Enable / Disable DDNS**

   Select enable to use DDNS function. Each time your IP address to WAN is changed, and the information will be updated to DDNS service provider automatically.

3. **Host Name**

   This field represents the host name you register to Dynamic-DNS service and expect to export to the world.

4. **User Name**

   User name is used as an identity to login Dynamic-DNS service.

5. **Password**

   Password is applied to login Dynamic-DNS service.

6. **Apply & Cancel**

   Click on **Apply** button to continue. Click on **Cancel** button to clear the setting on this page.

3.4 Advanced

There are NAT settings, Firewall setting and QoS setting included in advance setup. The advanced setting is in Router Mode only.

3.4.1 NAT

NAT is a method of mapping one or more IP addresses and/or services ports into different specified services, where NAT stands for Network Address Translation. It allows the internal IP addresses of many computers on a Local Area Network (LAN) to be translated to one public address, saving users' cost. It also plays a security role by obscuring the true IP addresses of important machines from potential hackers on the Internet. For convenience, we called a router having the NAT facility as a NAT-enabled router.

3.4.1.1 Virtual Server

To offer services, like WWW, FTP, provided by a server in your local network accessible for outside users, you should specify a local IP address to the server. Then, add the IP address and network protocol type, port number, and name of the service in the following list. Based on the list, the gateway will forward service request from outside users to the corresponding local server.

1. **Enable Virtual Server:** Check **Enable** to apply all those rules in Virtual Server List

into MT4205.

2. **Description:** Enter the description of the virtual server, this field allows you to record what this rule is used for.
3. **Private IP:** Specify the private IP address of the internal host offering the service.
4. **Protocol Type:** Specify the transport layer protocol (TCP or UDP).
5. **Private Port:** Specify the private port number of the service offered by the internal host.
6. **Public Port:** Specify the private IP address of the internal host offering the service.
7. **Schedule:** Set up the schedule for server.
8. **Add:** Click on **Add** button to record this setting.
9. **Apply & Cancel**
   Click on **Apply** button to add the settings into the list table. Click on **Cancel** button to clear the settings on this page.
10. **Virtual Server List**
    Shows all IDs and relevant information on server for administrator to edit or delete.

3.4.1.2 Virtual DMZ

Virtual DMZ allows you to expose one computer to Internet, so that all inbound packets will be redirected to the computer you set. It is useful while you run some applications that use uncertain incoming ports. Please use it carefully.

1. **Enable/Disable Virtual DMZ:** Check **Enable** to apply Virtual DMZ for the Router.
2. **IP Address:** This field stands for the destination IP address that you like to redirect the matched packet to.
3. **Apply & Cancel**
   Click on **Apply** button to continue. Click on **Cancel** button to clear the setting on this page.

3.4.2 Firewall

The Firewall function helps to protect your local network against attacks from outside. It also provides a way of restricting users on the local network from accessing the Internet. Additionally, it can filter out specific packets to trigger the router to place an outgoing connection.

3.4.2.1 Firewall Configuration

MT4205 provides built-in firewall functions, enabling you to protect the system against denial of service (DoS) attacks and other types of malicious accesses to your LAN while providing Internet access sharing at the same time. You can also specify how to monitor attempted attacks, and who should be automatically notified.

1. **Firewall Protection Level:** Select the level from the drop-down list, including High, Medium and Low. The below screen including SPI service and ICMP setting will change according to your level setup.
2. **Enable SPI Service:** MT4205 often monitor a wider range of activity, such as patterns of traffic and the type of application sending traffic. With SPI, the router looks at individual packets for patterns similar to known hacker techniques, such as Denial of Service (DoS) attacks, Ping of Death (illegal ping packet sizes or excessive ICMP messages), SYN Flood, LAND Attack, and IP Spoofing. Enable it if you need.
3. **Blocking ICMP Ping from WAN side:** The purpose of ICMP is to provide feedback regarding the network and datagram, it is not to make IP a reliable transport mechanism. ICMP messages use a basic IP datagram header with the IP data being the ICMP message. The IP source address is that of the host or gateway sending the ICMP message with the destination IP address being that of the original source IP address. You can enable ICMP Ping from WAN side or not.
4. **DoS Attacks Blocking Settings**

   Enable DoS Attacks Blocking: The following sections will explain in more detail about DoS Defense setup by using the web configuration. There are a total 8 kinds of defense function for the DoS Defense Setup. By default, the DoS Defense functionality is disabled. Further, once the DoS Defense functionality is enabled, the default values for the threshold and timeout values existing in some functions are set to 300 packets per second and 10 seconds, respectively. A brief description for each item in the DoS defense function is shown below.

   SYN Flooding: Check or uncheck this option to enable or disable protection against SYN Flood attacks. This attack involves sending connection requests to a server, but never fully completing the connections. This will cause some computers to get into a “suck state” where they cannot accept connections from legitimate users. (“SYN” is short for SYNchronize”; this is the first step in opening an Internet connection). You can select this box if you wish to protect the network from TCP SYN flooding.

   WinNuke: Check or un-check this option to enable or disable protection against WinNuke attacks. Some older versions of the Microsoft Windows OS are vulnerable to this attack. If the computers in the LAN are not updated with recent versions/patches, you are advised to enable this protection by checking this check box.

   MIME Flood: Check or un-check this option to enable or disable protection against MIME attacks. You can select this box to protect the mail server in your network against MIME flooding.

   FTP Bounce: Check or un-check this option to enable or disable protection against FTP bounce attack. In its simplest terms, the attack is based on the misuse of the PORT command in the FTP protocol. An attacker can establish a connection between

the FTP server machine and an arbitrary port on another system. This connection may be used to bypass access controls that would otherwise apply.

IP Unaligned Time-Stamp: Check or un-check this option to enable or disable protection against unaligned IP time stamp attack. Certain operating systems will crash if they receive a frame with the IP timestamp option that isn't aligned on a 32-bit boundary.

Sequence Number Prediction Check: For TCP packets, sequence number is used to guard against accidental receipt of unintended data and malicious use by the attackers if the ISN (Initial Sequence Number) is generated randomly. Forged packets with valid sequence numbers can be used to gain trust from the receiving host. Attackers can then gain access to the compromised system. Note that this attack affects only the TCP packets originated or terminated at the Internet Security Router.

Sequence Number Out of Range Check: Protect against TCP out of range sequence number attacks. An attacker can send a TCP packet to cause an intrusion detection system (IDS) to become unsynchronized with the data in a connection. Subsequent frames sent in that connection may then be ignored by the IDS. This may indicate an unsuccessful attempt to hijack a TCP session.

ICMP Verbose: Check or un-check this option to enable or disable protection against ICMP error message attacks. ICMP messages can be used to fold your network with undesired traffic.

Max IP Fragment Count: Enter the maximum number of fragments the Firewall should allow for every IP packet. This option is required if your connection to the ISP is through PPPoE. This data is used during transmission or reception of IP fragments. When large sized packets are sent via MT4205, the packets are chopped into fragments as large as MTU (Maximum Transmission Unit). By default, this number is set to 45. If MTU of the interface is 1500(default for Ethernet), then there can be a maximum of 45 fragments per IP packet. If the MTU is less, then there can be more number of fragments and this number should be increased.

Minimum IP Fragment Size: Enter the Minimum size of IP fragments to be allowed through Firewall. This limit will not be enforced on the last fragment of the packet. If the Internet traffic is such that it generates many small sized fragments, this value can be decreased. This can be found if there are lots of packet losses, degradation in speed and if the flowing log message is generated very often: "fragment of size less than configured minimum fragment size detected".

5. Apply & Cancel

Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

6. DoS Attacks Blocking List

The list shows all the DoS attacks blocking items.

DoS Attacks Blocking List	
IP Reassembly Attacks	Bonk, Boink, Teardrop(New Tear), Overdrop, Opentear, Syndrop, Jolt
ICMP Attacks	Ping of Death, Smurf, Twinge
Flooders	ICMP Flooder, UDP Flooder
Port Scans	TCP XMAS Scan, TCP Null Scan, TCP SYN Scan, TCP Stealth Scan
Protection with PF Rules	Echo-Chargen, Ascend Kill
Miscellaneous Attacks	IP Spoofing, LAND, Targa, Tentacle

3.4.2.2 IP Filter

Use IP Filter to deny LAN IP addresses from accessing the Internet. You can deny specific port numbers or all ports for the specific IP address.

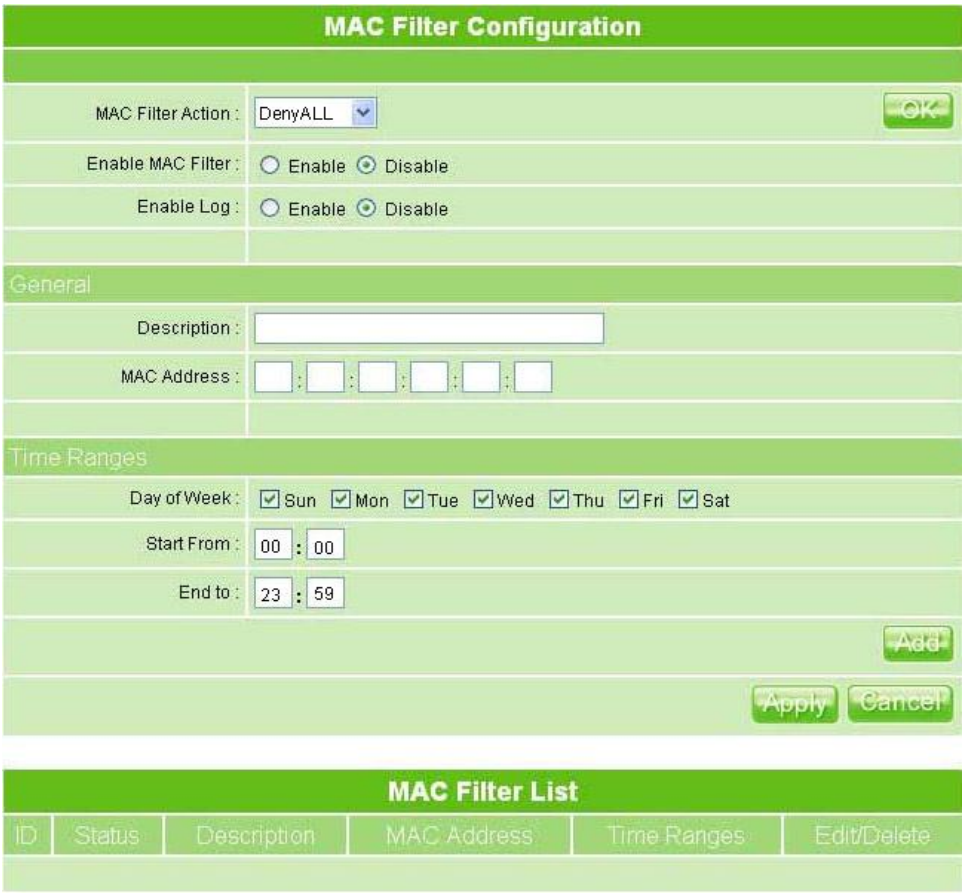
IP Filter Configuration
IP Rule
Enable IP Filter : Enable Disable
Enable Log : Enable Disable
Source : Address/Mask Port
Destination : Address/Mask Port
In/Out : In Out
Protocol : TCP UDP ICMP
Listen : Yes No
Time Ranges
Day of Week : Sun Mon Tue Wed Thu Fri Sat
Start From : 00 : 00
End to : 23 : 59
Action : Deny Allow
Side : LAN
Add
Apply Cancel
IP Filter List
Status Source Destination Time Ranges Rule Action Side Edit/Delete

1. **Enable IP Filter:** Check enable or disable to apply IP Filter function.

2. **Enable Log:** All packets between WAN and LAN will be logged.
3. **Source:** To specify the appropriate IP address / mask and enter the source port number.
4. **Destination:** Allows you to set the destination address / mask to which this rule should apply and enter the source port number.
5. **In/Out:** Select inbound or outbound ACL (Access Control List) rules, you can control (allow or deny) incoming or external network access to computers on your LAN.
6. **Protocol:** This option allows you to select protocol type. Available settings are **TCP, UDP** and **ICMP**.
7. **Listen:** To check if a computer is on the Internet. It sends ping packets and listens for replies from the specific host.
8. **Time Ranges:** Apply IP filter by setting time ranges.
9. **Action:** Select **Deny**, the IP filter will deny for above time range, otherwise, to allow IP filter in above time.
10. **Side:** Set the IP filter from LAN or WAN, or you may select both side.
11. **Add, Apply & Cancel:**
    After finish the above, click **Add** button to create the new ACL rule and add the settings into the list table. Click on **Apply** button to save and **Cancel** button to clear the settings on this page.
12. **IP Filter List**
    Shows all filtered IP information for administrator to edit or delete.

3.4.2.3 MAC Filter

Use MAC filters to deny LAN computers by their MAC addresses from accessing the Internet. You can manually add a MAC address that is currently connected to MT4205.



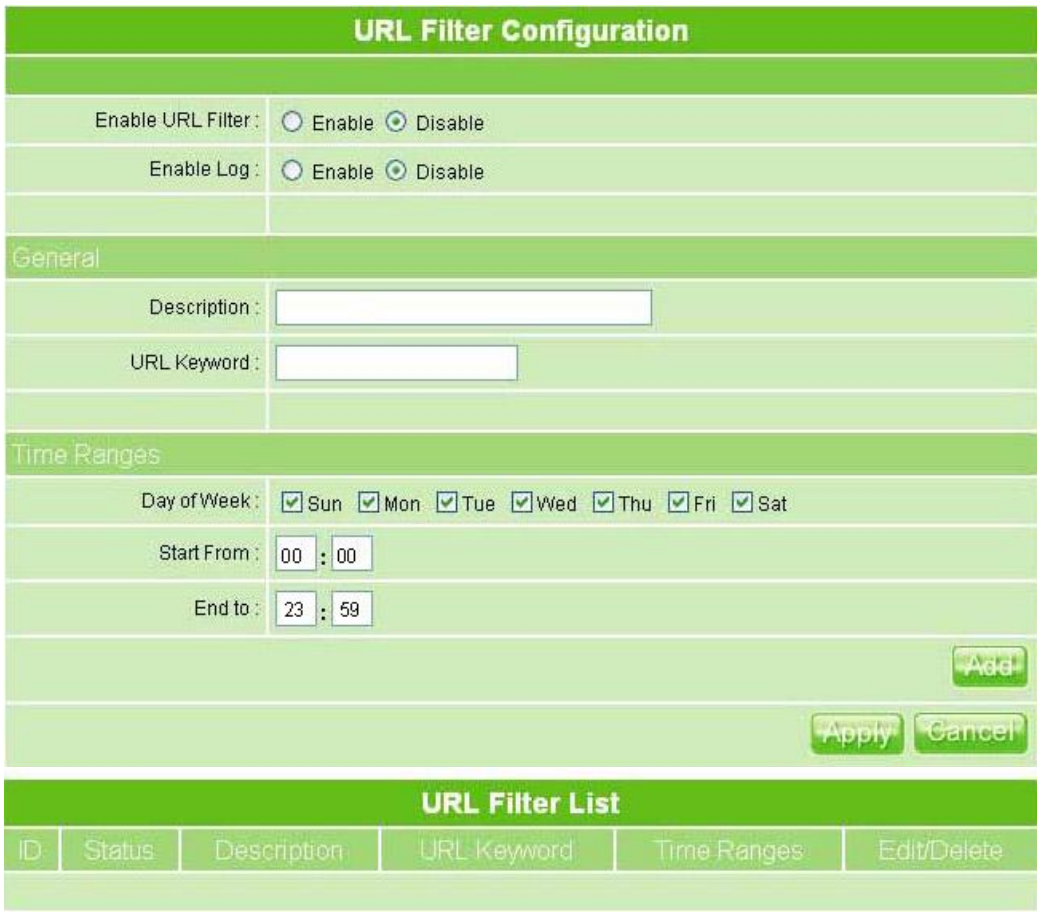
1. **MAC Filter Action:** To deny or allow all MAC filter action.
2. **Enable MAC Filter:** Check enable or disable to apply MAC Filter function.
3. **Enable Log:** All packets between WAN and LAN will be logged.
4. **Description:** Enter the filter description into this blank.
5. **MAC Address:** Enter the MAC address manually that you want to filter.
6. **Time Ranges:** Apply MAC filter by setting time ranges.
7. **Add, Apply & Cancel**

   After finish the above, click **Add** button to create the MAC configuration rule and add the settings into the list table. Click on **Apply** button to save and **Cancel** button to clear the settings on this page.
8. **MAC filter list**

   Shows all filtered MAC information for administrator to edit or delete.

3.4.2.4 URL Filter

Keyword based URL (Uniform Resource Locator) filtering allows you to define one or more keywords that should not appear in URL's. Any URL containing one or more of these keywords will be blocked. This is a policy independent feature i.e. it cannot be associated to ACL rules. This feature can be independently enabled / disabled, but works only if firewall is enabled.


URL Filter Configuration
Enable URL Filter : Enable Disable
Enable Log : Enable Disable
General
Description :
URL Keyword :
Time Ranges
Day of Week : Sun Mon Tue Wed Thu Fri Sat
Start From : 00 : 00
End to : 23 : 59
Add
Apply Cancel
URL Filter List
ID Status Description URL Keyword Time Ranges Edit/Delete

1. **Enable URL Filter:** Check enable or disable to apply URL filter function.
2. **Enable log:** All packets between WAN and LAN will be logged.
3. **Description:** Enter the filter description into this blank.
4. **URL keyword:** Enter the URL words into this blank to apply filter blocking, example: "www.yahoo", then it'll block all the websites from www.yahoo range.
5. **Time Ranges:** Apply URL filter by setting time ranges.
6. **Add, Apply & Cancel**

   After finish the above, click **Add** button to create the URL rule and add the settings into the list table. Click on **Apply** button to save and **Cancel** button to clear the settings on this page.
7. **URL Filter List**

   Shows all filtered URL information for administrator to edit or delete.

3.4.3 QoS

Quality of Service (QoS) refers to the capability of a network to provide better service to selected network traffic over various technologies, including Frame Relay, Asynchronous Transfer Mode (ATM), Ethernet and 802.1x networks, and IP-routed networks that may use any or all of these underlying technologies. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic), and improved loss characteristics. Also important is making sure that providing priority for one or more flows does not make other flows fail. QoS technologies provide the elemental building blocks that will be used for future business applications in campus, WAN and service provider networks. This chapter provides each setting of QoS.

Quick Setup - QoS Configuration

Enable QoS Service :	Enable / Disable
Current Upstream Bandwidth :	2048 (Kbps, default:100000 Kbps, MAX:100000 Kbps)

Priority

High :	60 (%)
Medium :	30 (%)
Low :	10 (%)

Application

Status	Description	Priority
Enable	FTP	Medium
Enable	HTTP	High
Enable	E-mail	Low
Enable	Telnet	Medium
Enable	Voice: H323, SIP	High
Enable	Games: MSDirectPlay, Battle.Net, Quake2(Doom3), Unreal(CS)	High
Enable	IM: AOL(ICQ), MSN , Yahoo	High
Enable	Video: RTSP	Low

Back Next Exit

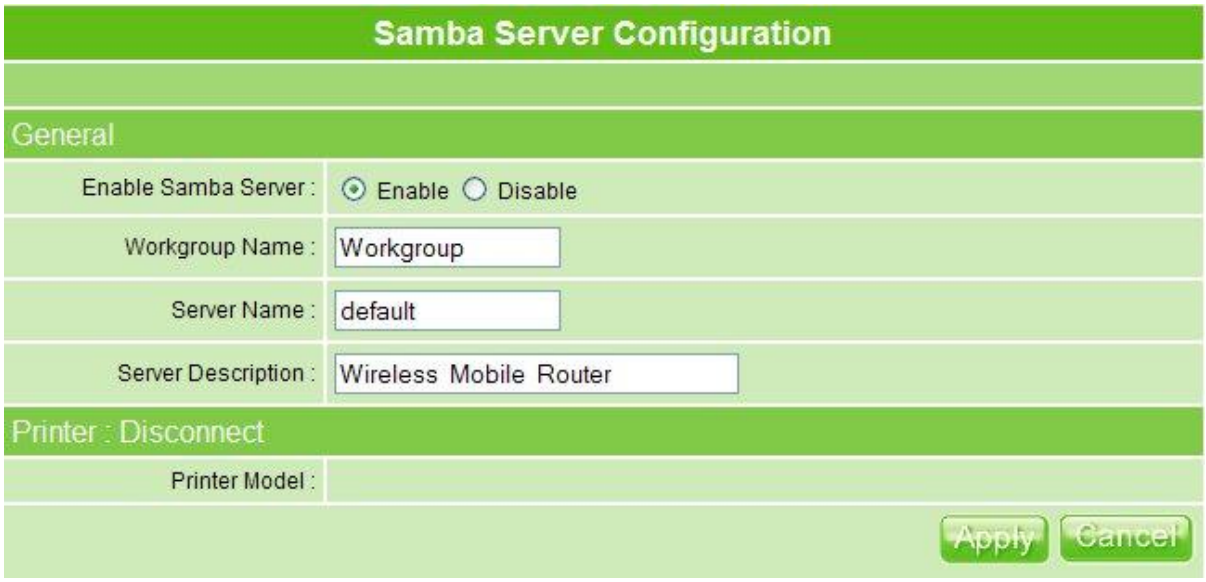
1. **Enable QoS Service:** One checkbox appears to activate the QoS control function or not. Click it to force the router to perform QoS control over traffic flows. By default, it's enabled.
2. **Current Upstream Bandwidth:** Allows you to set the upper bound of the port forwarding rate. It will be of great value to minimize the impact on other users from one user who would otherwise monopolize the network transmission bandwidth (e.g. playing games or downloading large files).
3. **Priority:** To limit the bandwidth consumed over a backbone link by FTP transfers or give priority to an important database access. And the following applications can be selected individually and distribute the priority level.
4. **Application:** Including FTP, HTTP, E-mail, Telnet, Voice, Games, IM and Video priority setting.
5. **Apply & Cancel**
   Click on **Apply** button to save the setting or **Cancel** button to clear the settings on this page.

3.5 Server

MT4205 provides FTP Server, Web Camera Server, Printer Server and Samba Server applications.

3.5.1 Samba Server

By supporting NetBIOS Protocol, MT4205 provides LAN users to share files or printer via My Network Places. Click **Samba Server** to proceed.



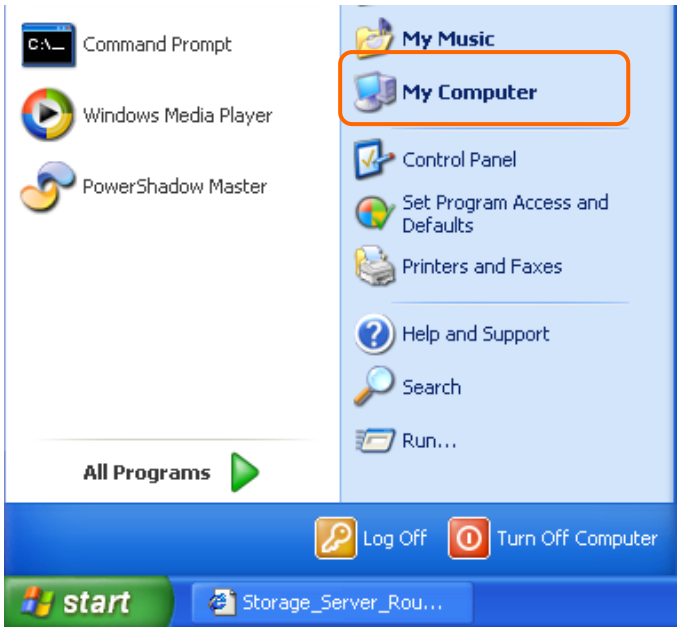
1. **Enable Samba Server**
   Check to **Enable**/**Disable** while connecting.
2. **Workgroup Name**
   Fill in the name, and the default is **Workgroup**.
3. **Server Name**
   Name your server.
4. **Server Description**
   Describe your server by demand, and the default is **Wireless Mobile Router**.
5. **Printer Model**
   Printer model appears when connected.
6. **Apply & Cancel**
   Click **Apply** to save or **Cancel** to clear settings.

3.5.1.1 How to Access File Sharing Directory

Please follow the steps below.

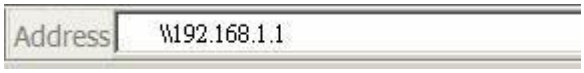
【Step 1】

Go to **Start** and click **My Computer**.



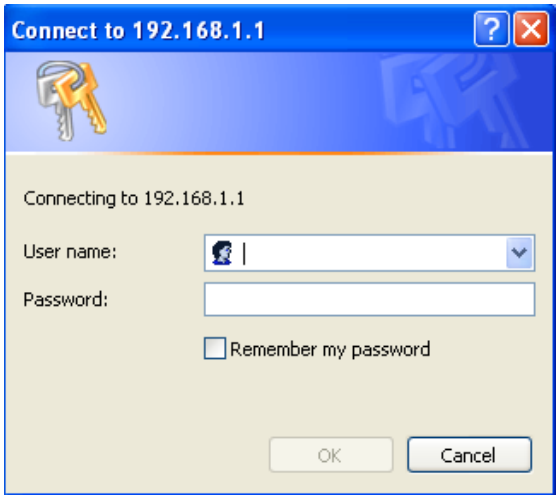
【Step 2】

Fill in blank address field with \\192.168.1.1.



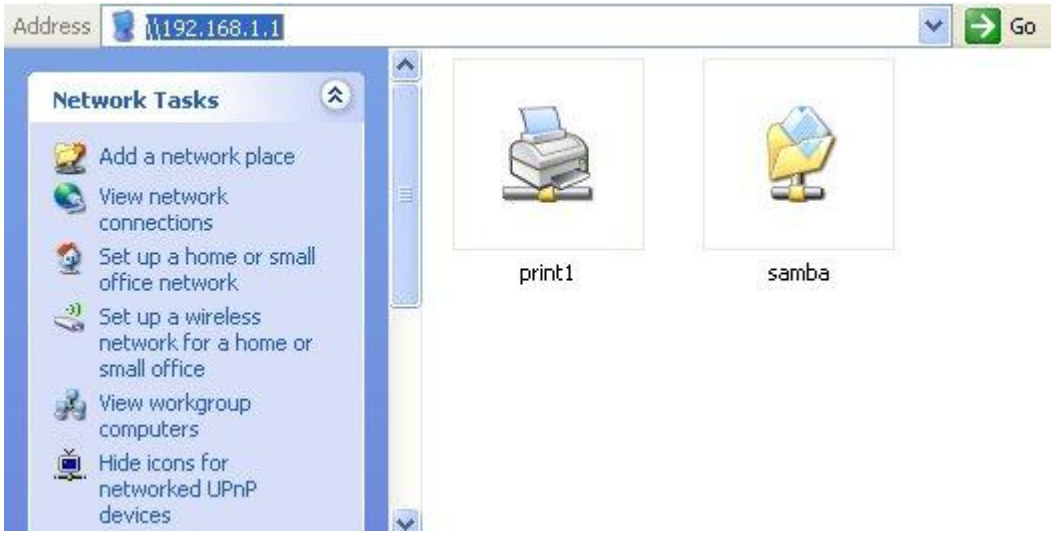
【Step 3】

A window pops up asking for user name and password. If log in as an administrator, please enter **admin** for both fields; otherwise, fill in with personal account and password. Click **OK** after finished.



【Step 4】

As the window below appears, login user has entered file sharing directory, and the folders underneath are all available for sharing locally.

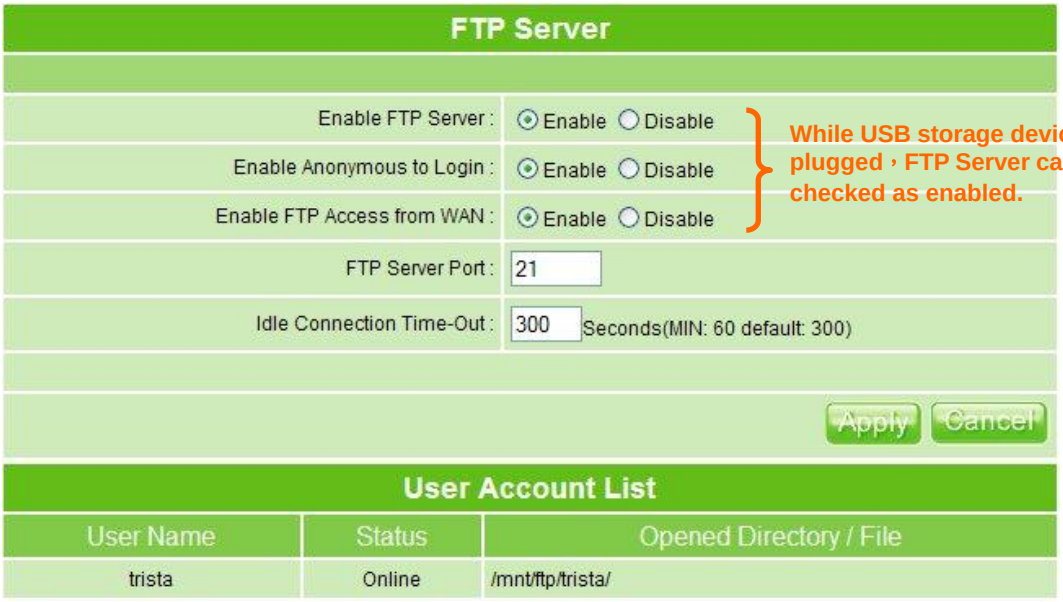


Note: Only **2** icons show up at most.
1. If a USB flash drive/hard disk is connected and enabled, the **samba** folder shows up.
2. If a USB printer is connected and enabled, the **printer** icon shows up.

3.5.2 FTP Server

By directly connecting USB storage devices to any USB port, FTP server can be created with simple configuration. FTP Server utility allows both local and remote users to upload or download files, pictures or music files from the same storage device in most easy and timely fashion. It is also cost effective where users do not need to purchase a dedicated PC to set up a 24 hours FTP service.

Before configuring FTP Server, please make sure the storage device is properly plugged into any USB port on the router and make sure this USB storage device is detected by the router.


FTP Server
Enable FTP Server : Enable Disable
Enable Anonymous to Login : Enable Disable
Enable FTP Access from WAN : Enable Disable
While USB storage device is plugged，FTP Server can be checked as enabled.
FTP Server Port : 21
Idle Connection Time-Out : 300 Seconds(MIN: 60 default: 300)
Apply Cancel
User Account List
User Name
Status
Opened Directory / File
trista
Online
/mnt/ftp/trista/

1. **Enable FTP Server:** Enabling selection for FTP Server only can be checked when USB storage device is plugged.
2. **Enable Anonymous to Login:** Allow anonymous to log in after check on enable.
3. **Enable FTP Access from WAN:** Allow FTP access from WAN side by checking on enable for this item.
4. **FTP Server Port:** Define the FTP command transfer service port. If you want to change this port number, also remember to change the service port setting of your FTP client.
5. **Idle connection Time-Out:** When a specific time value is added, FTP Server will be de-activated if it has no activity within the time limit.
6. **Apply & Cancel**
   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.
7. **User Account List**
   A list shows all user names, staus and directory/file opened.

Notice: FTP server is compatible with FAT32 or EXT3 format USB storage device. In case you need to format your USB storage device. Please always make sure the device is formatted with FAT32 or EXT3 standard.

3.5.3 Web Camera Server

MT4205 has built-in Web Cam Server. By connecting web camera to the router, it allows user to monitor their home or office from remote locations. **Motion Detection** function has also been built-in and allows user to use webcam to detect any movements in their houses or offices and send email alert with captured images.

3.5.3.1 Web Camera Server Basic Setup

1. **Enable Webcam Server:** Allow using this function by checking on enable.
2. **Access from WAN:** Allow webcam can access from WAN side by checking on enable for this item.
3. **Image format:** The default is 320x240 pixels.
4. **Preview:** Click on this button, you can preview the image from webcam.
5. **Record Setting:** Please see the detail advance setting in **3.5.3.2 Web Camera Server Advanced Configuration.**
6. **Apply & Cancel**
   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.5.3.2 Web Camera Server Advanced Configuration

Click on **Record Setting** button, and the screen will appear as below.

1. **Enable save image:** If you want to save the image from webcam, please check on enable.
2. **Save image interval:** For saving image, you can set the save interval time, the default value is 5 seconds.
3. **Save Location:** Set the save location for webcam image, you may save into USB

HDD or remote FTP; if select save to remote FTP, please continue follow-up remote FTP setting.

4. **USB HDD Directory:** The section provides option of which folder should be used for saving webcam image.
5. **Remote FTP URL:** Input the FTP URL for saving webcam image.
6. **Remote FTP port:** Input the FTP port number under URL to save image.
7. **Remote FTP user:** Enter the user's name you like and it will be used to save the webcam image into the FTP server.
8. **Remote FTP password:** Put in a password for validation while accessing.
9. **Remote FTP Directory:** To provide option of which folder should be used for saving webcam image.
10. **Back:** Click on **Back** button for returning to Webcam Basic Setup screen.
11. **Apply & Cancel**

    Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

3.5.3.3 Application for Web Camera

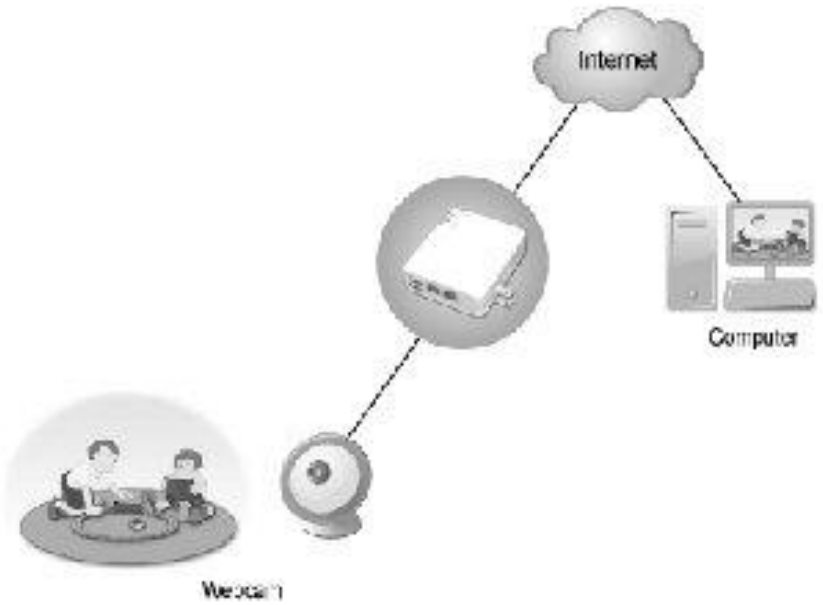
3.5.3.3.1 Web Camera Monitoring Application

Monitor your home or take pictures with a Webcam via MT4205; one can set up the

monitoring or recording of all images into the USB HDD for reviewing. Often marketed as surveillance tools for home or office security; network Webcams are now being employed by early adopters for more personal matters, such as watching kids and monitoring pets. The Webcam can be remotely accessed and controlled via a browser. In addition, record and monitor live actions with USB webcam; then view the image through Internet browsers or WiFi mobile phones.

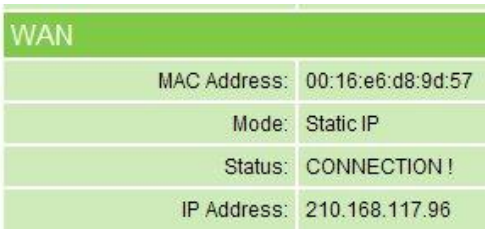
3.5.3.3.1.1 Web Camera Monitoring via WAN connection

The illustration below is an example for watching the webcam image via WAN connection.



- **How to check your WAN IP address**

To monitor the webcam image from outside, you need to know the WAN IP address. Select **Network Configuration** under **Log & Status** on main **Menu** after connected, and you will see the WAN IP Address used to connect to webcam monitor screen. Here uses 210.168.117.96 as an example.



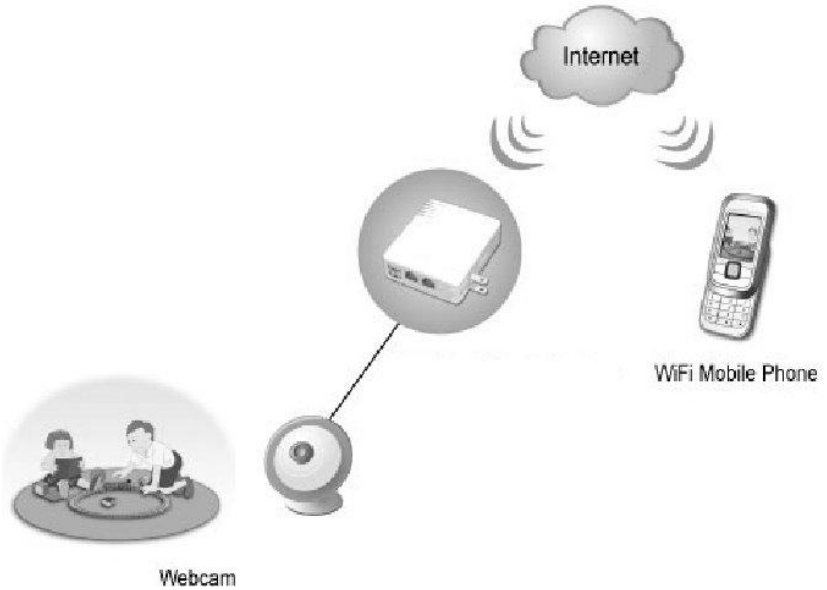
- **Monitor the webcam image via WAN**

Input the WAN IP Address (as you see on above screen) into browser blanks. You will see the personal account login screen appear, and then input your own user account and password. After logging in as a user, your will see the personal control panel screen as below, please click on **My Webcam**.

There will pop-up screen shows the image from web camera as example below.

3.5.3.3.1.2 Web Camera Monitoring via WiFi Mobile Phone

You may view the monitor live action through WiFi mobile phones.



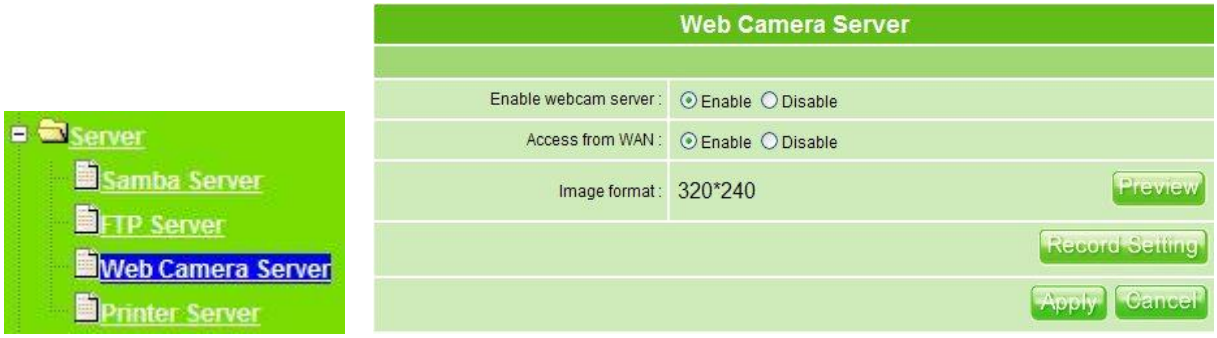
Please fill the WAN IP address plus “/webcam.html” (e.g. http://210.64.134.25/webcam.html) into the mobile phone’s browser blank and you will see the webcam user login screen appear as below.

After logging in with your own account, you will see the monitor image from web camera via WiFi mobile phone.

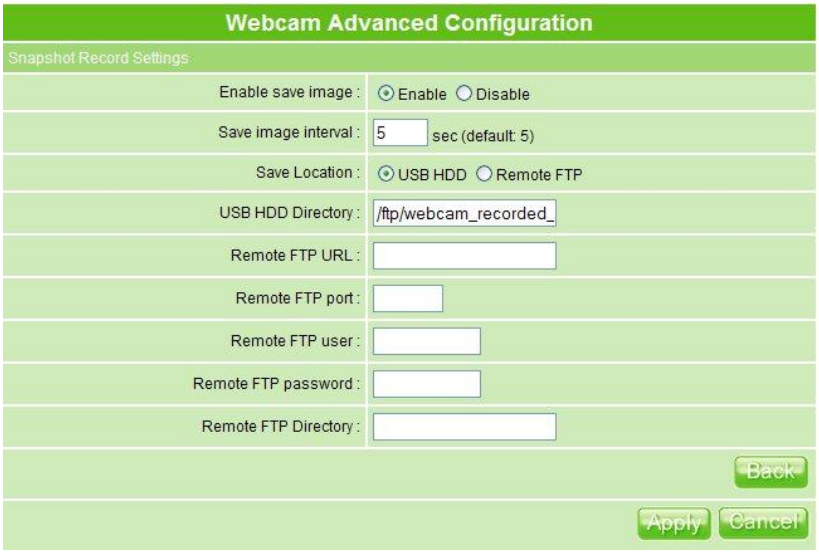
3.5.3.3.2 Web Camera Recording

3.5.3.3.2.1 Administrator Setup

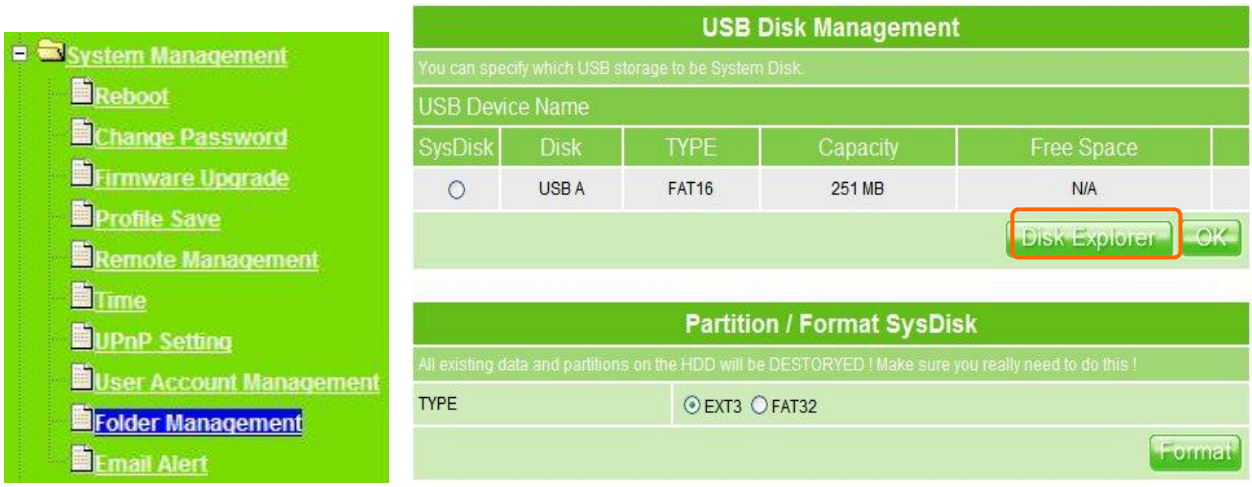
MT4205 also can record the pictures from Webcam; only ***Administrator*** can activate the settings. Select **Web Camera Server** from main **Menu** and enable this function, click on **Record Setting** button for further setting.



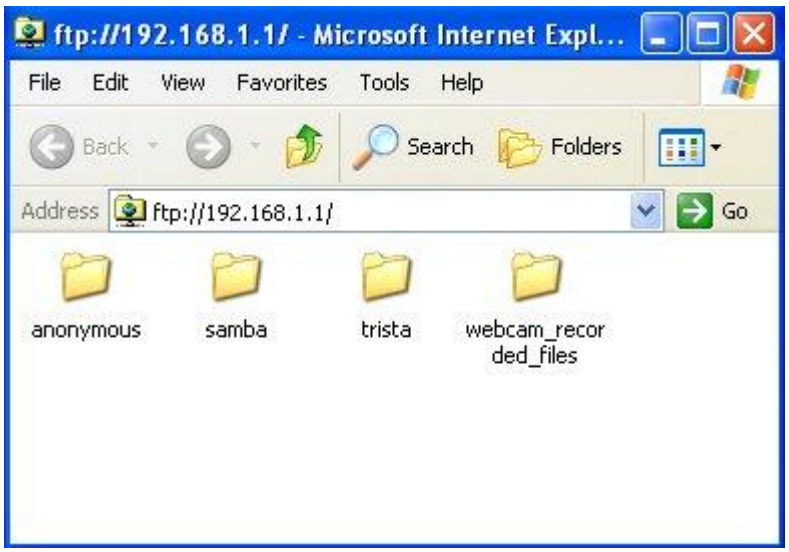
To set up the Webcam Advanced Configuration for each text field, the image from webcam will be recorded into your USB HDD or Remote FTP. Click on **Apply** after setup finished.



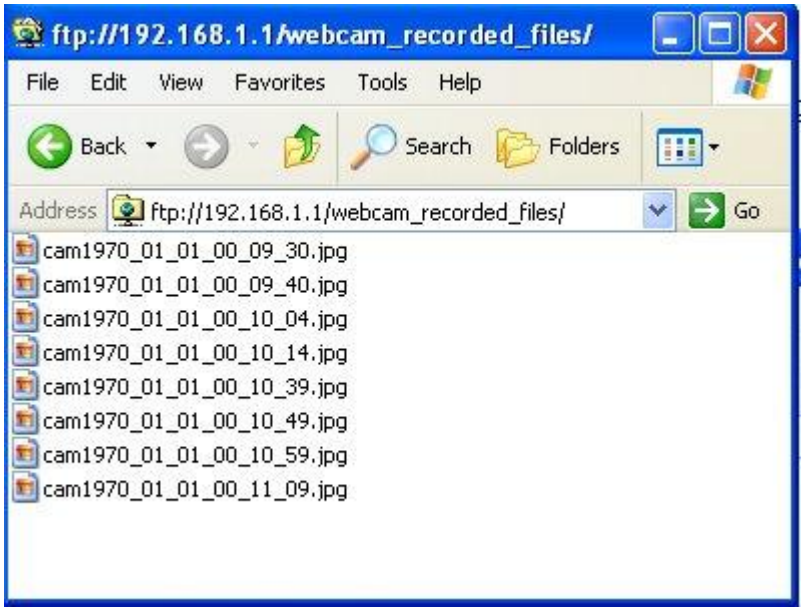
For administrator, you may view all the images from webcam recording, please select **Folder Management** and click on **Disk Explorer** to view entire folder inside the disk including webcam record files.



After click on **Disk Explorer**, you will see the folder screen appear including all the folders inside MT4205. (Below is the example.)

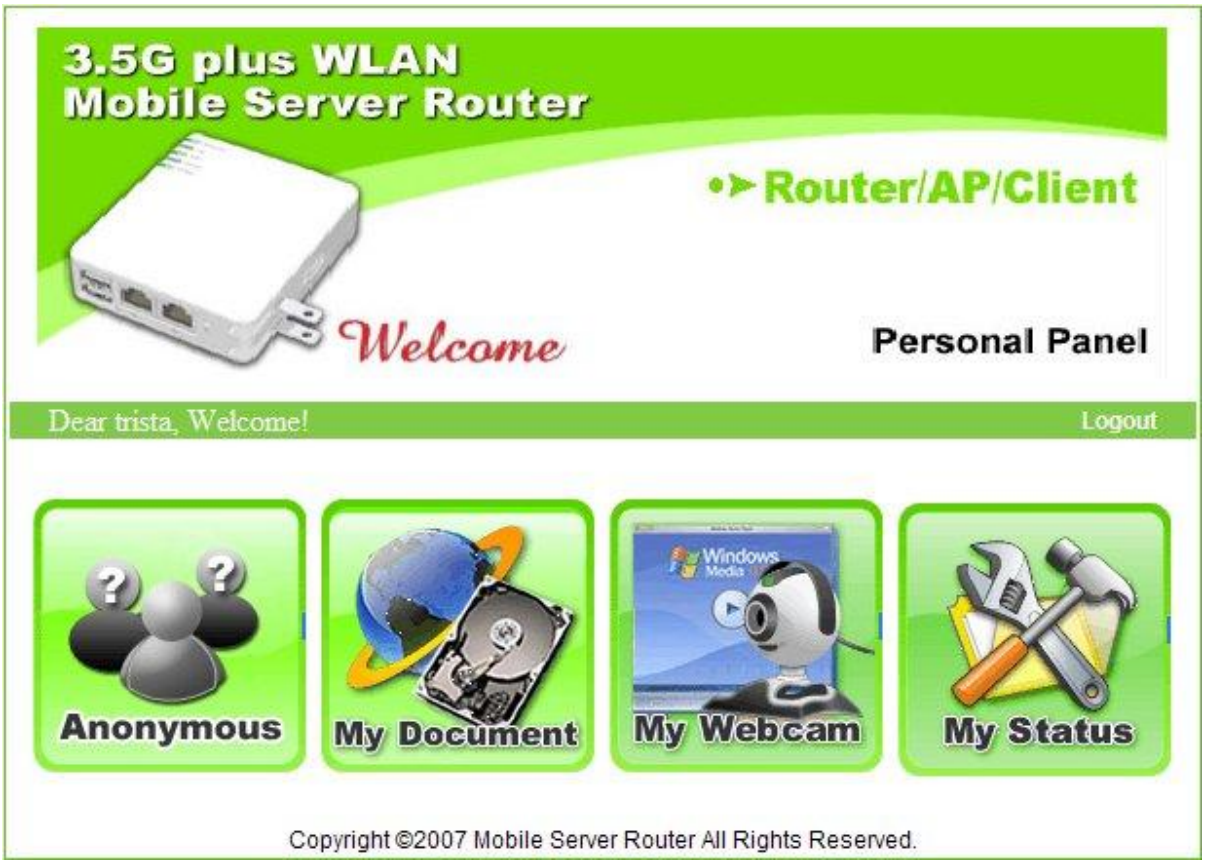


For getting the images from web camera or any files inside router, you may copy the files into your own HDDs directly. In addition, all image files are stored in **webcam_recorded_files** folder, click to examine the content inside.

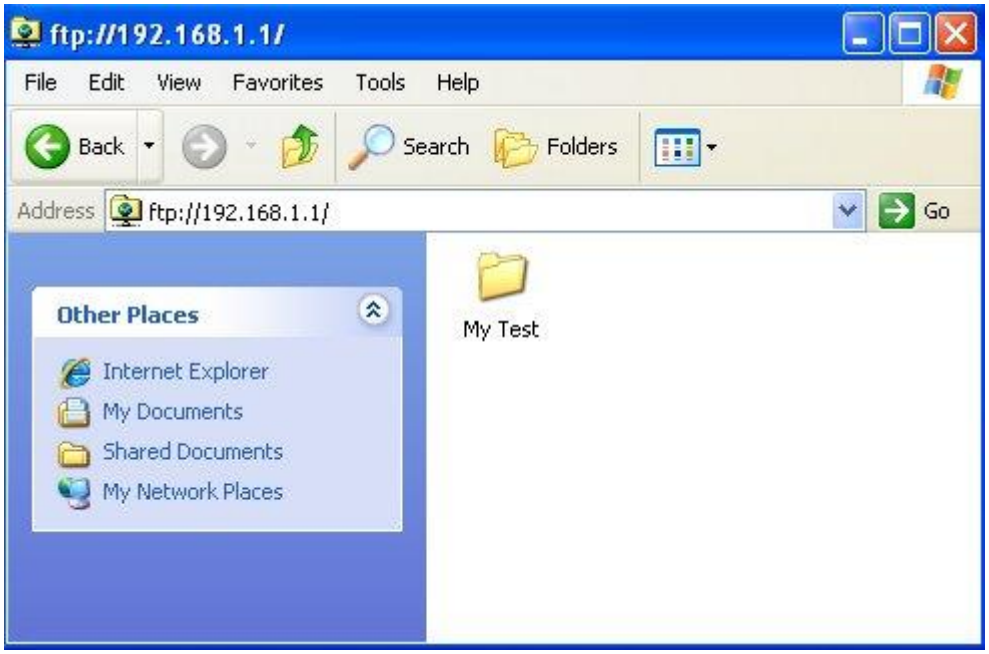


3.5.3.3.2.2 Personal Application

All the users under administrator's setting can view entire webcam recording images from **My Document**. Please log in with your own personal account. For viewing your own folder, please click on ***"My Document"***.



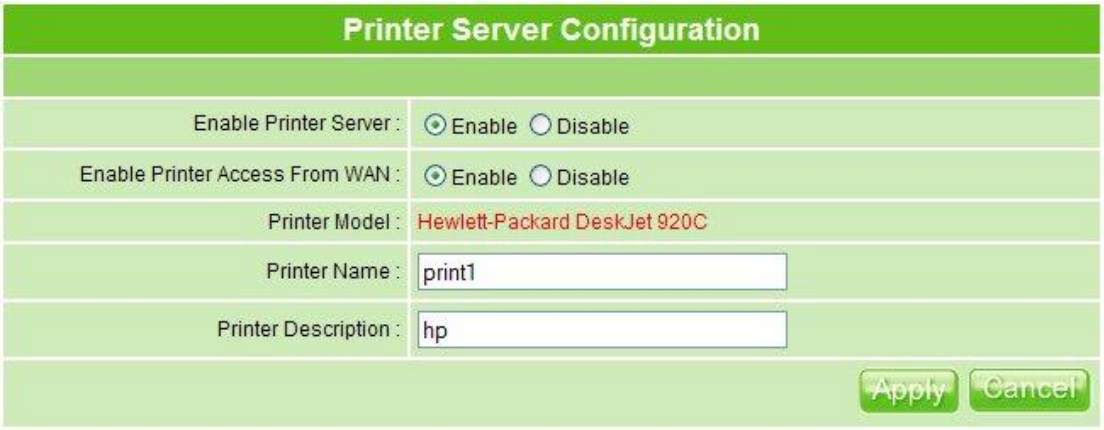
After click on ***My Document***, you will see folder screen appear as the example below.



Notice: If you can't open the folder, please check with administrator to set up your FTP access right.

3.5.4 Printer Server

MT4205 has two USB ports for connecting with printers to be shared on the local area network. Follow the steps to set up your PC to connect to a printer server.


Printer Server Configuration
Enable Printer Server : Enable Disable
Enable Printer Access From WAN : Enable Disable
Printer Model : Hewlett-Packard DeskJet 920C
Printer Name : print1
Printer Description : hp
Apply
Cancel

1. **Enable Printer Server:** Check enable for applying printer server.
2. **Enable Printer Access From WAN:** Allow printer can access from WAN side by checking on enable for this item.
3. **Printer Model:** The printer model will be shown when the USB printer is plugged.
4. **Printer Name:** Enter the name you like.
5. **Printer Description:** Enter your description by demand.
6. **Apply & Cancel**
   Click on **Apply** button to continue. Click on **Cancel** button to clear the settings on this page.

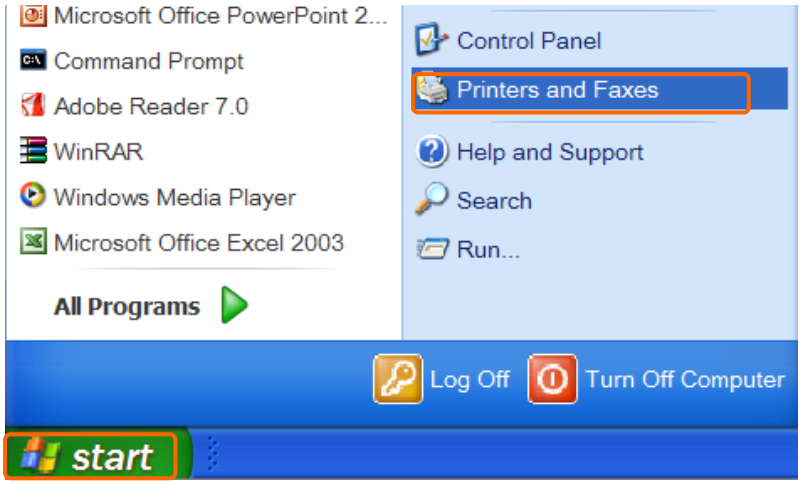
Besides the above is finished, the printer setting on PC also needs to be set as follows.

3.5.4.1 Printer Setting on PC

After enabling Printer Server in Quick Setup and Printer Server Configuration, please follow the steps to set the detail **LPR** settings on your PC. (The example below is for Windows XP platform.)

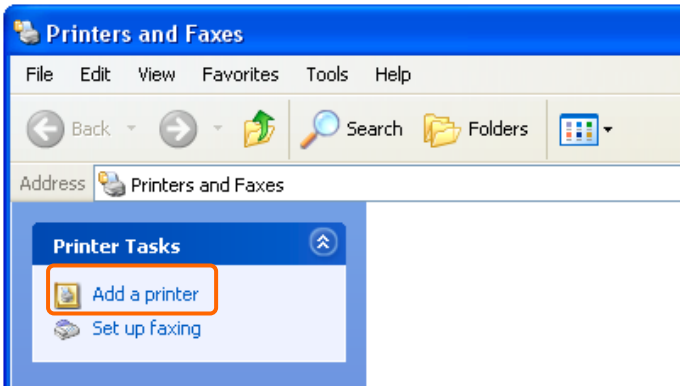
【Step 1】

After setting USB printer on MT4205's setup page, please go to **Start > Printers and Faxes** to add a printer.



【Step 2】

Click on **Add a printer** item.



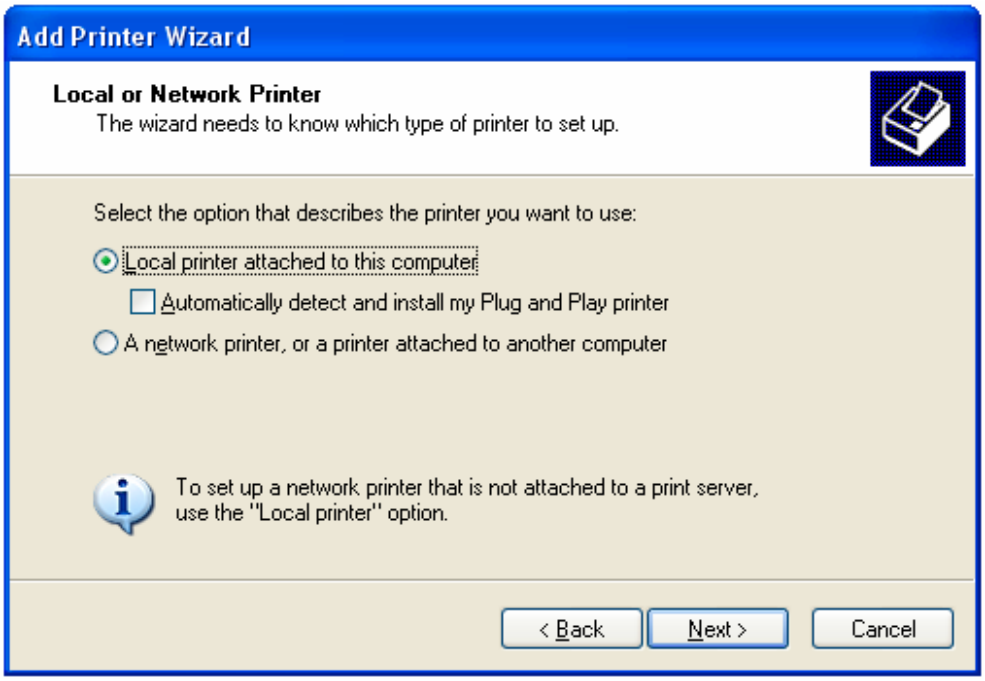
【Step 3】

Click on **Next** button.

Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

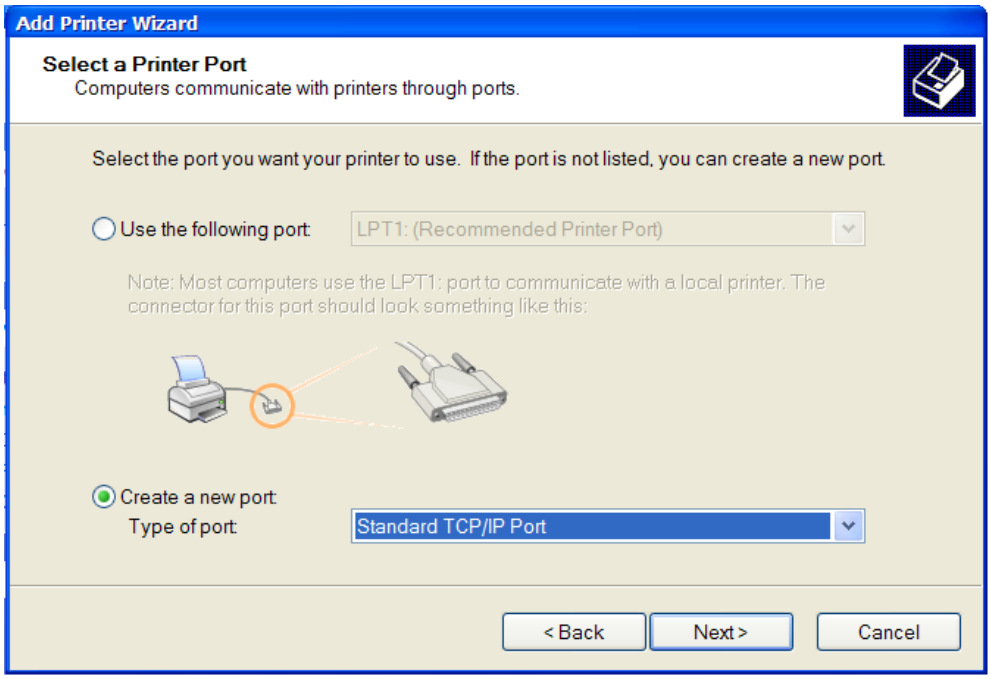
【Step 4】

Select **Local printer attached to this computer**, and click **Next**.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

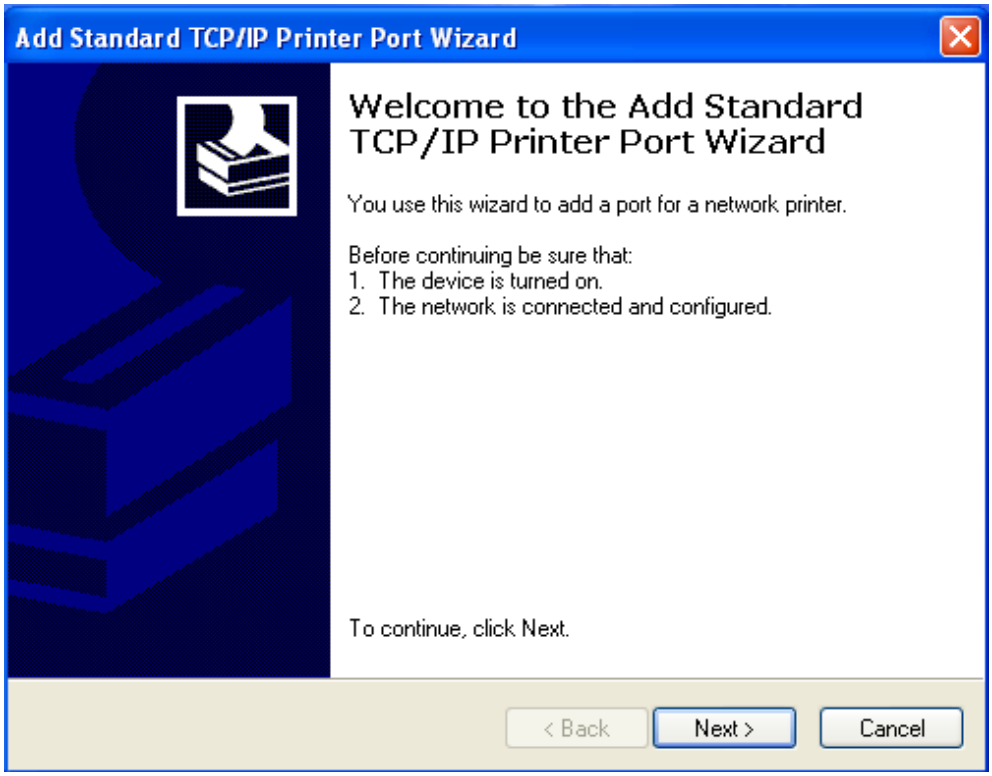
【Step 5】

Select **Create a new port** and choose **Standard TCP/IP Port** from drop-down list, then click **Next**.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Standard TCP/IP Port
< Back
Next >
Cancel

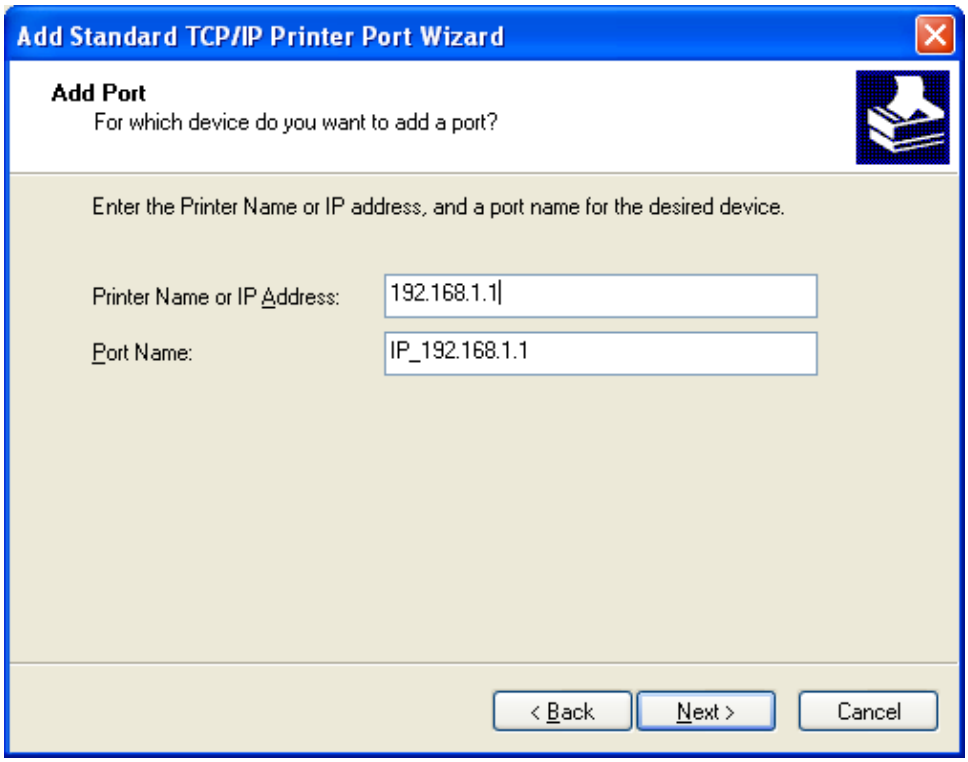
【Step 6】

Click **Next**.


Add Standard TCP/IP Printer Port Wizard
Welcome to the Add Standard TCP/IP Printer Port Wizard
You use this wizard to add a port for a network printer.
Before continuing be sure that:
1. The device is turned on.
2. The network is connected and configured.
To continue, click Next.
< Back
Next >
Cancel

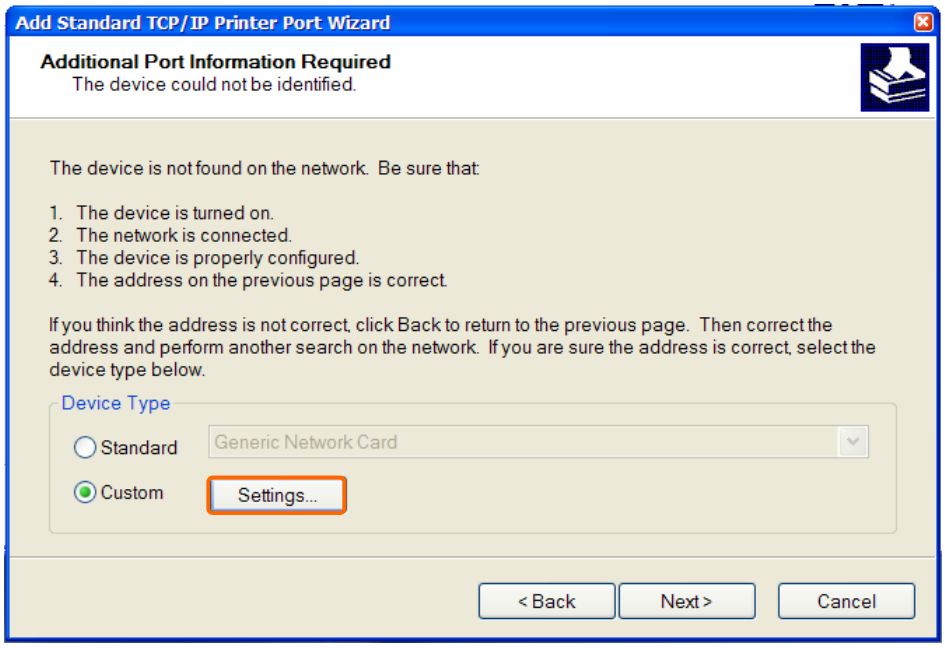
【Step 7】

Put in MT4205's address: **192.168.1.1** and click **Next**.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.1
Port Name:
IP_192.168.1.1
< Back
Next >
Cancel

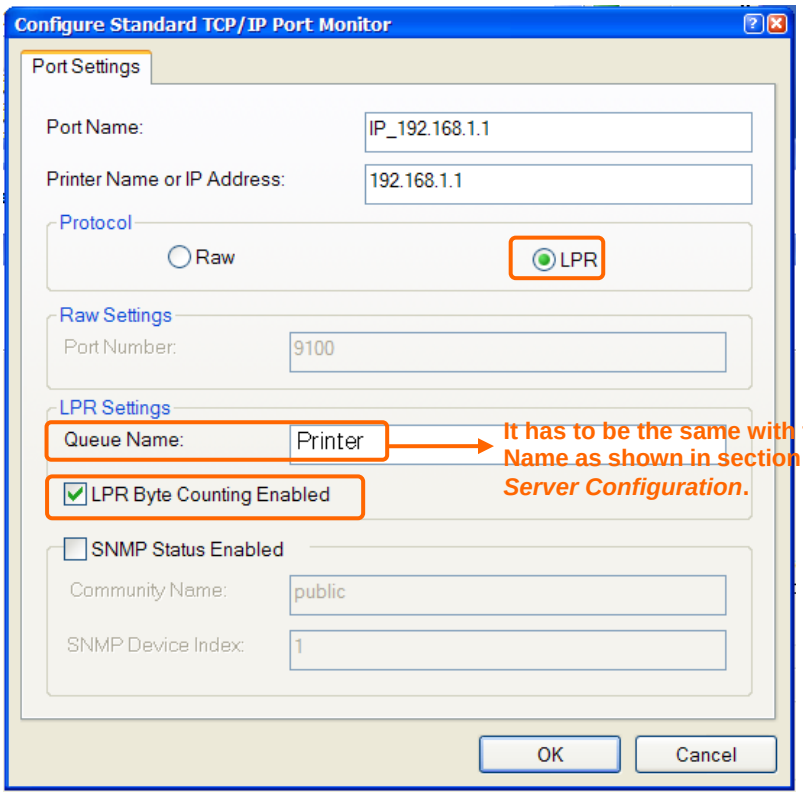
【Step 8】

Select **Custom** and click on **Settings…** button to set the detail setting.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The device is not found on the network. Be sure that:
1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.
If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

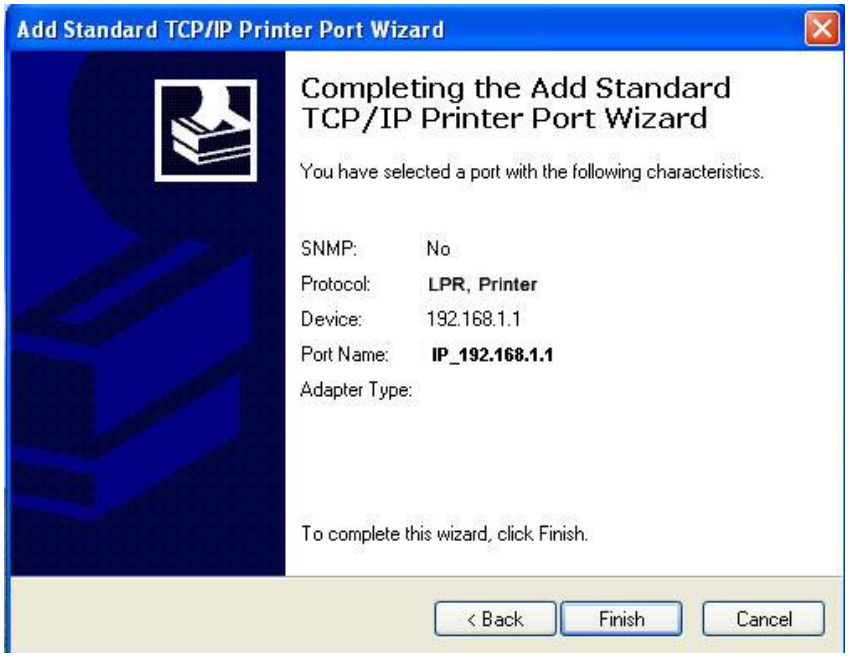
【Step 9】

Select **LPR** and give it the same **Queue Name** as USB Printer Name has shown, and mark **LPR Byte Counting Enabled**. Finally, click on **Next** button.



【Step 10】

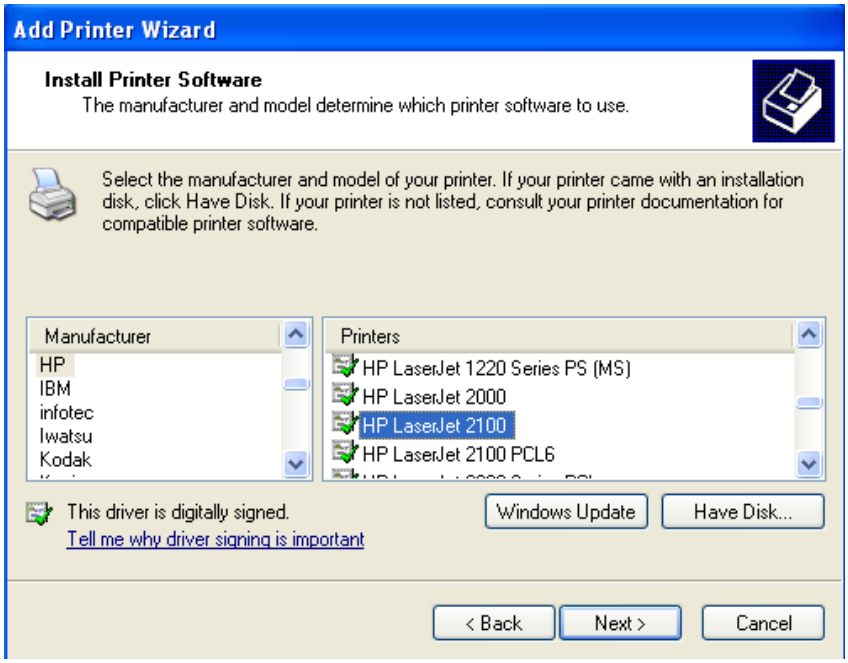
Click **Finish** on the next screen after the aforesaid settings, you have to install the printer driver as well.



【Step 11】

Select the **Manufacturer** and **Printers**. If your printer is not listed in the table, please

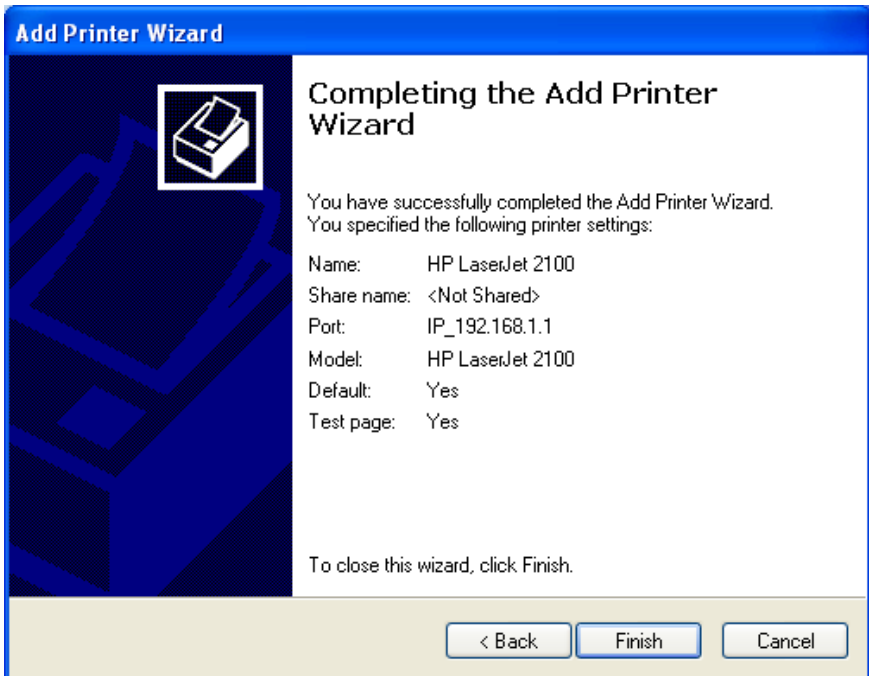
insert its driver CD and then click on **Have Disk…** button for installation. Or click on **Next** button to finish the setting.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
HP
IBM
infotec
Iwatsu
Kodak
Printers
HP LaserJet 1220 Series PS (MS)
HP LaserJet 2000
HP LaserJet 2100
HP LaserJet 2100 PCL6
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

You can name your printer, set it as default printer and share your printer as the next screen shown, the **Printer Server** setting is getting completed.

【Step 12】

It shows you the printer settings that you have specified, and then click **Finish**.



3.6 System Management

MT4205 provides system management including password changing, firmware upgrade, time setting, user's account setting and other detail settings. Following is detail explanation for each.

3.6.1 Reboot

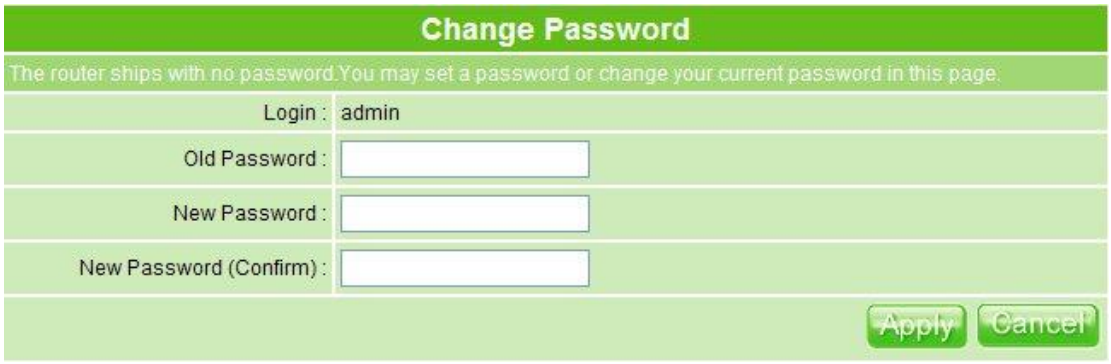
If you had entered the wrong configuration while setting up your router or other utilities, you can always reboot your MT4205 by this setting.

It's necessary to reboot the router if it begins working improperly, please click on Reboot button to reboot the router.

Reboot
Sometimes it may be necessary to reboot the router if it begins working improperly. Rebooting the router will not delete any of your configuration settings. Click reboot button to reboot the router.
Reboot

3.6.2 Change Password

At this section, the administrator can change the system password. Only the password can be changed, the user name for administrator is **admin** and can't be changed.



1. **Old Password:** Enter the original password you set.
2. **New Password:** Enter the new password you want to change.
3. **New Password (Confirm):** Enter the new password again for confirming.
4. **Apply & Cancel**

   Click **Apply** to continue or **Cancel** to clear the settings on this page.

3.6.3 Firmware Upgrade

There is certain risk while upgrading firmware. Upgrading firmware is not recommended unless the significant faulty is found. You can upgrade the firmware of MT4205 on this page. Make sure the firmware you want to use is on the local hard drive of the computer. Click **Firmware Upgrade** to proceed.

Firmware Upgrade
From time to time, the product may release new versions of the router's firmware. You can click Check Firmware button to check and download up-to-date firmware and click Browser button to locate the file from your local harddisk.
Current Firmware Version : Ver2.0.2
Firmware Date : 2007/10/02 12:04:40
Update Firmware :
Browse...
OK
Cancel

1. **Update Firmware:** Click on **Browse…** button to search your local hard drive and locate the firmware to be used for update.
2. **OK & Cancel**
   Click **OK** to confirm or click **Cancel** to clear the setting on this page.

Notice: Before using a whole new disk, please format it on your PC first, so that it can be formatted on MT4205.

3.6.4 Profile Sasve

To back up the current configuration setting or load the backup data, also you can restore MT4205 to default setting by this function.

Profiles Save
In this page, you can save your current configuration, restore a previously saved configuration, or restore all of the settings in the router to the factory (default) settings.
Save Settings To PC :
Save
Load Settings From PC :
Browse...
Load
Restore To Factory Default Settings :
Restore
Apply

1. **Save Settings To PC:** Click on **Save** button for saving the configuration setting into assigned location.
2. **Load Settings From PC:** Click on "**Browse…**" button for searching the saving configuration from hard drive, and then click on **Load** button to load all the settings into the router.
3. **Restore To Factory Default Settings:** After you have tried other methods for troubleshooting your network, you may choose to restore MT4205 to the factory default settings.
4. **Apply**
   Click on **Apply** button to save the settings.

3.6.5 Remote Management

Remote Management allows MT4205 to be configured from the Internet by a web browser. In general, only a member of your network can browse the built-in web pages to perform "Administrator" tasks. This feature enables you to perform the tasks from the remote (Internet) host.

1. **HTTP Connection Port:** The port number used to access the router.
2. **Remote Management:** You can allow any Internet IP address to access the router, or set up deny rule according to IP setting.
3. **IP Address:** Internet IP address of the computer that has access to the router.
4. **Description:** Enter the description for the remote configuration.
5. **Add, Apply & Cancel**
   Click on **Add** button to add the remote list, click on **Apply** button to activate, or click on **Cancel** button to clear the settings on this page.
6. **Remote Management IP List**
   Display, edit or delete IDs, description and IP address of allowed remote list.

3.6.6 Time

The System time is the time used by MT4205 for scheduling services. You can manually set the time or connect to a NTP (Network Time Protocol) server. If a NTP server is set, you will only need to set the time zone. If you manually set the time, you may also set Daylight Saving dates and the system time will automatically adjust on those dates.

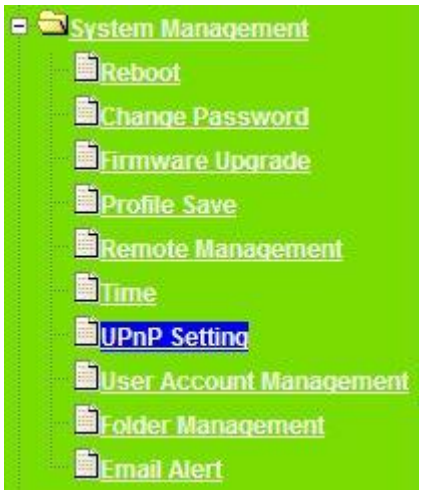
Time Server
Please set your time and time zone in this page.
Local Time : 2007/09/10 Mon 16:27:08
Setup Time Use NTP
Default NTP Server : clock.stdtime.gov.tw (optional)
Time Zone : (GMT+08:00) Beijing, Hong Kong, Singapore, Taipei
Daylight saving time : Disable
User Setup
Set the Time : Year : 2004 Month : Jan Day : 01
Hour : 00 Minute : 00 Second : 00
Apply Cancel

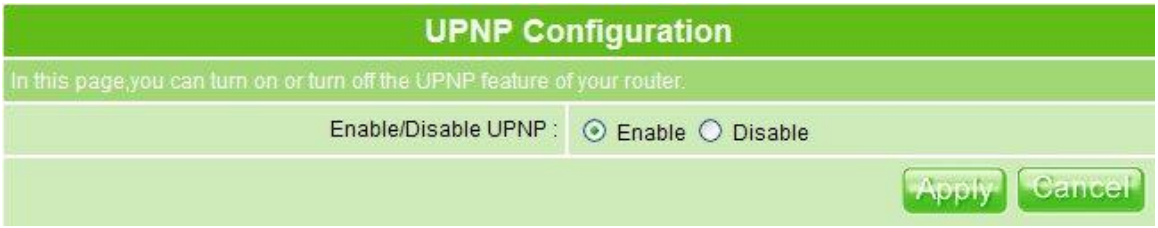
1. **Local Time:** The default time within.
2. **Default NTP Server:** Select the NTP Server from the drop-down list.
3. **Time Zone:** Select your time zone location from the drop-down list.
4. **Daylight saving time:** If you are in daylight saving time area, please enable this item.
5. **Set the Time:** Select this item to set up time by manual, select the date and time from each drop-down list.
6. **Set Time:** Select **User Setup** and click **Set Time** to set local PC time on router.
7. **Apply & Cancel**

Click on **Apply** button to activate, or **Cancel** button to clear the settings.

3.6.7 UPnP Setting

UPnP (Univsersal Plug and Play) allows users to connect their UPnP-enabled broadband router, printer server and other devices right to the network with zero-configuration, meaning easier setup for installing the device on the network. The automatic discovery feature enables the device to obtain an IP address, present and describe itself to other devices and PCs on the network without having to install drivers, but to configure and use those devices.

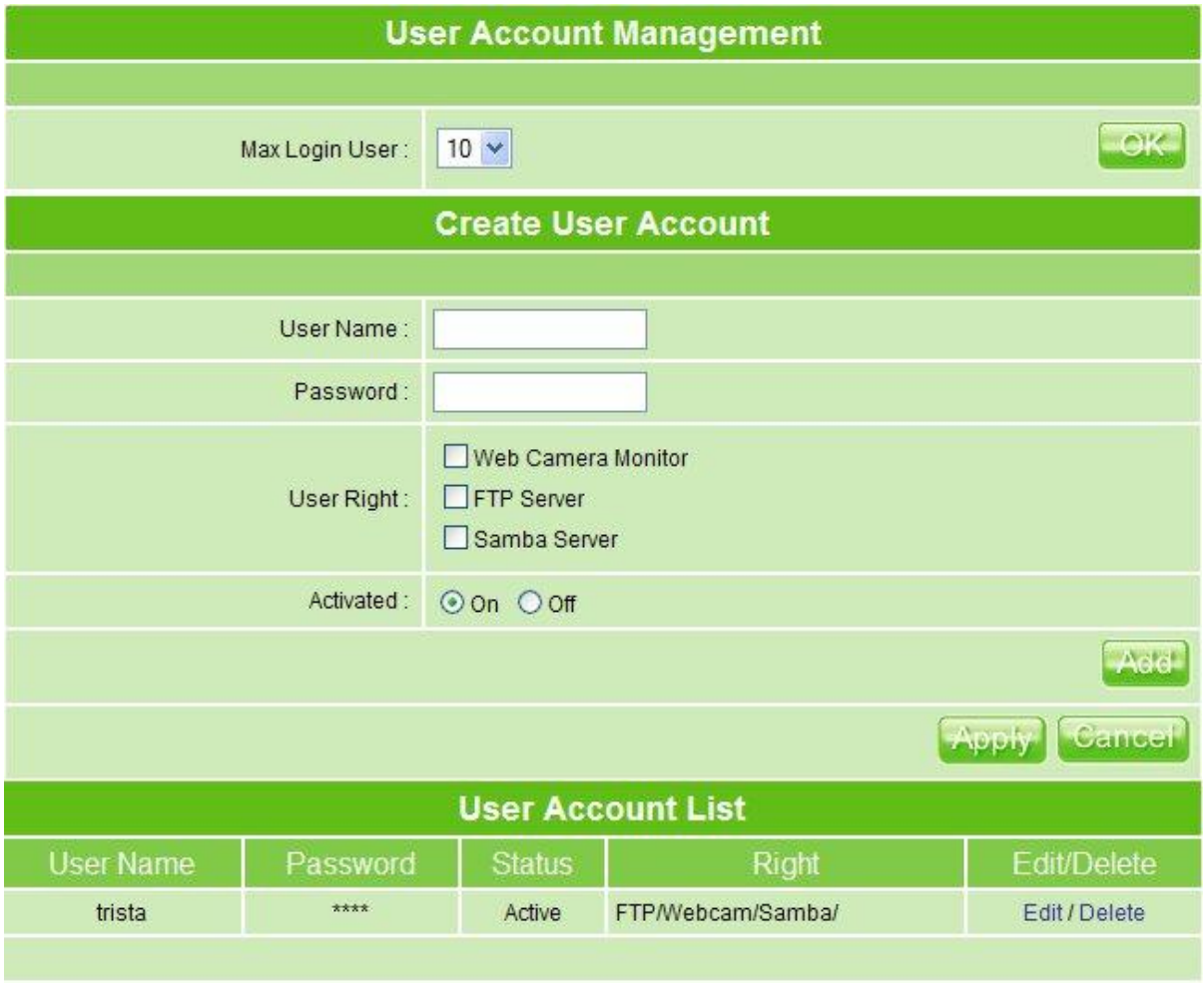




1. **Enable/Disable UPnP:** Select to enable or disable this service.
2. **Apply, Cancel**
   Click on **Apply** button to activate this function or **Cancel** button to clear the setting.

3.6.8 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and allowed to edit or delete by clicking the linking text.



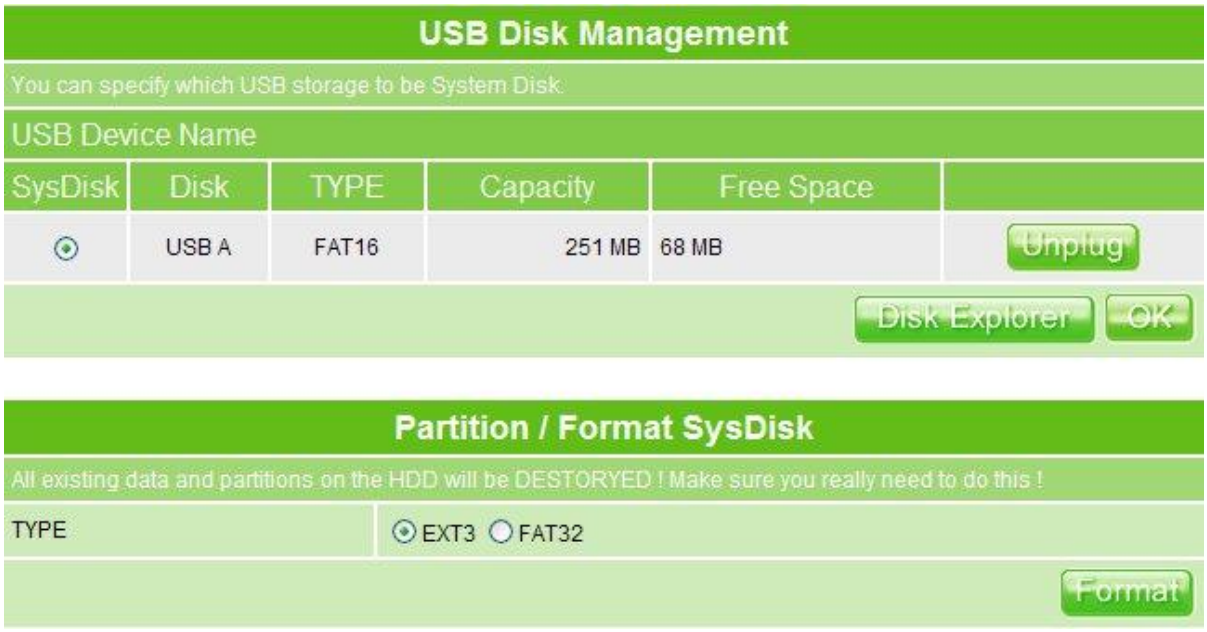
1. **Max Login User:** Set up the maximum users to log in at the same time, select the number from drop-down list. If you want to change the maximum login users only without changing user's information, please click on **OK** button after select login user's number.
2. **User Name:** Create the user name in this blank.
3. **Password:** Set up the user's password.

4. **User Right:** Check to allow set-user accessing Samba folder, monitoring from webcam or using FTP server.
5. **Activated:** Click **On** to allow the user's right to be applied immediately.
6. **Add, Apply & Cancel**
   After finishing the above, click **Add** button to create user account. Click on **Apply** button to add set-user into the account list or **Cancel** button to clear the settings on this page.
7. **User Account List**
   The list shows all users' names, passwords, status and rights.

3.6.9 Folder Management

Easy to check all the USB storage devices connected to MT4205, view the entire data folder inside each storage devices, and you can manage the disk formatting / partition via clicking the button on this page.

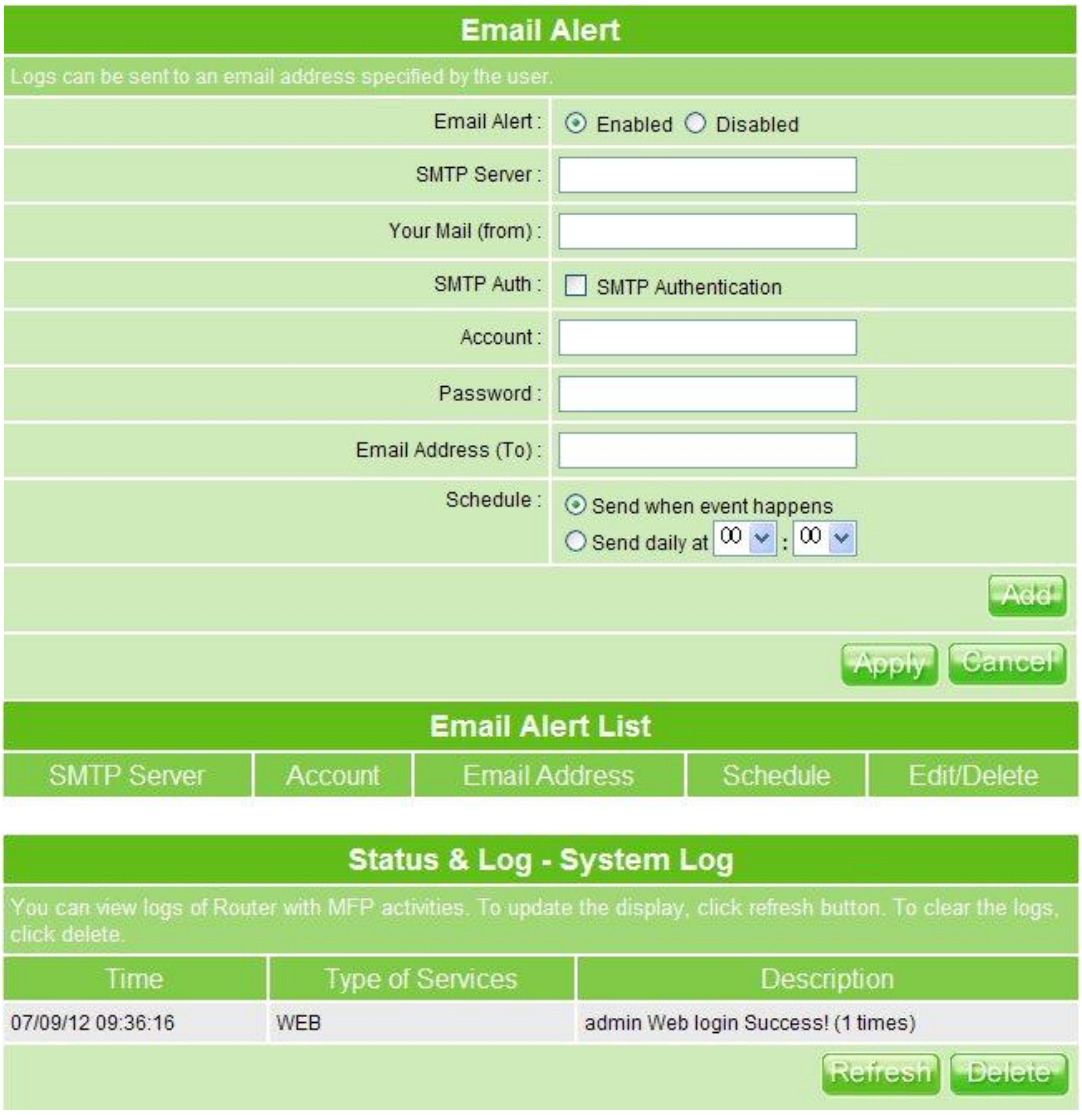
1. Select the USB Disk and click **OK** for refreshing all disks before you perform disk partition, and the **Unplug** button appears afterwards.
2. To partition/format the disk, please select the disk and click on **Format** button.
3. Moreover, if you want to view the data inside the disk, please go to ***3.2.10 FTP Sever Setup*** to enable FTP server and then click on **Disk Explorer** to view all the folders inside the device.



Notice: You have to click on **Unplug** button before removing the USB device from MT4205.

3.6.10 Email Alert

To monitor router activity, you can run on a local PC or a remote one elsewhere on the Internet. And MT4205 provides the email alert facility so that the log messages can be packed as an e-mail for someone who wants to receive these messages by scheduled time. In the following, here explains how to set up the email alert function.



1. **Email Alert:** Check the enable box to activate the email alert service.
2. **SMTP Server:** Specify an IP address of the SMTP server which can send mails from your MT4205 to the recipients' mailboxes directly.
3. **Your Mail (from):** Enter the email address indicated the sending location.
4. **SMTP Auth:** If the email alert needs to be sent via SMTP authentication, please check this item, and then enter the required account and password.
5. **Account:** Enter the email account from which you want to send the alert.
6. **Password:** Enter the email account password to validate.
7. **Email Address (To):** Enter the email address where to receive the alert.
8. **Schedule:** Arrange to send the alert when event happens or by regular time.
9. **Add, Apply & Cancel**

   After finishing the above, click **Add** to set up the rule into email alert list. Then, click **Apply** to save or **Cancel** to clear the settings on this page.
10. **Email Alert List**

    Display, edit or delete a list of relative information in regarding to the above mentioned.

11. Refresh & Delete

Click on **Refresh** to renew the login data and other system status information, or click on **Delete** to clear these logs.

3.7 Log & Status

MT4205 provides the log list, connection status and user's account.

3.7.1 Network Configuration

Network Configuration shows all connection status of LAN, WAN, Wireless and plugged USB devices.

Each block shows configuration status, you may click **Refresh** to update the screen list. If WAN connection is in dynamic, click **Release** to free the used IP or **Renew** to get a new one.

Network Configuration	
System Bootup Time	
Bootup Time:	44:18
LAN	
MAC Address:	00:0e:68:00:39:3d
DHCP Server:	192.168.1.1
Receive bytes:	1390897
Receive packets:	8358
Transmit bytes:	11467730
Transmit packets:	10906

WAN	
MAC Address:	00:0e:68:00:39:3c
Mode:	Static IP
Status:	CONNECTION !
IP Address:	210.68.117.196
Subnet Mask:	255.255.255.0
Default Gateway:	210.68.117.1
DNS:	server1:139.175.55.244 server2:139.175.252.16
Receive bytes:	11001373
Receive packets:	12879
Transmit bytes:	1277974
Transmit packets:	7789

Wireless	
Status:	AP Mode
MAC Address:	00:d0:41:ab:f2:57
Mode:	MIX
SSID:	Wireless_Mobile_Router
TxRate:	Auto B/G
Channel:	6
Encrypt Type:	None
Receive bytes:	0
Receive packets:	0
Transmit bytes:	0
Transmit packets:	0

USB

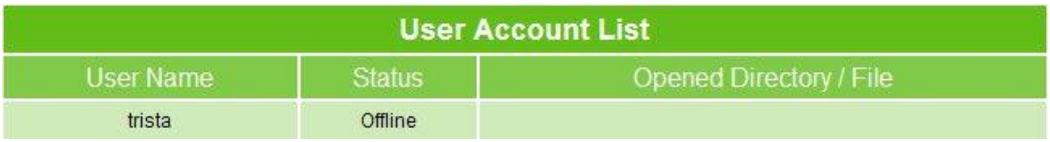
USB Port	USB Type	Name	Model	Status

Refresh

3.7.2 User Account List

This section shows all users' information.

Check the user name, status and opened directory/file on screen.



3.7.3 Event Log

MT4205 provides system logs for review.

The system status log shows logging time, type and detail information as below. Click **Refresh** to update.

3.8 Logout

Click **Logout** on the bottom menu to exit and go back to GUI login home page as illustrated on page 23.

3.9 Personal Configuration

Open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://192.168.1.1 (Default Gateway) into browser's blank field.

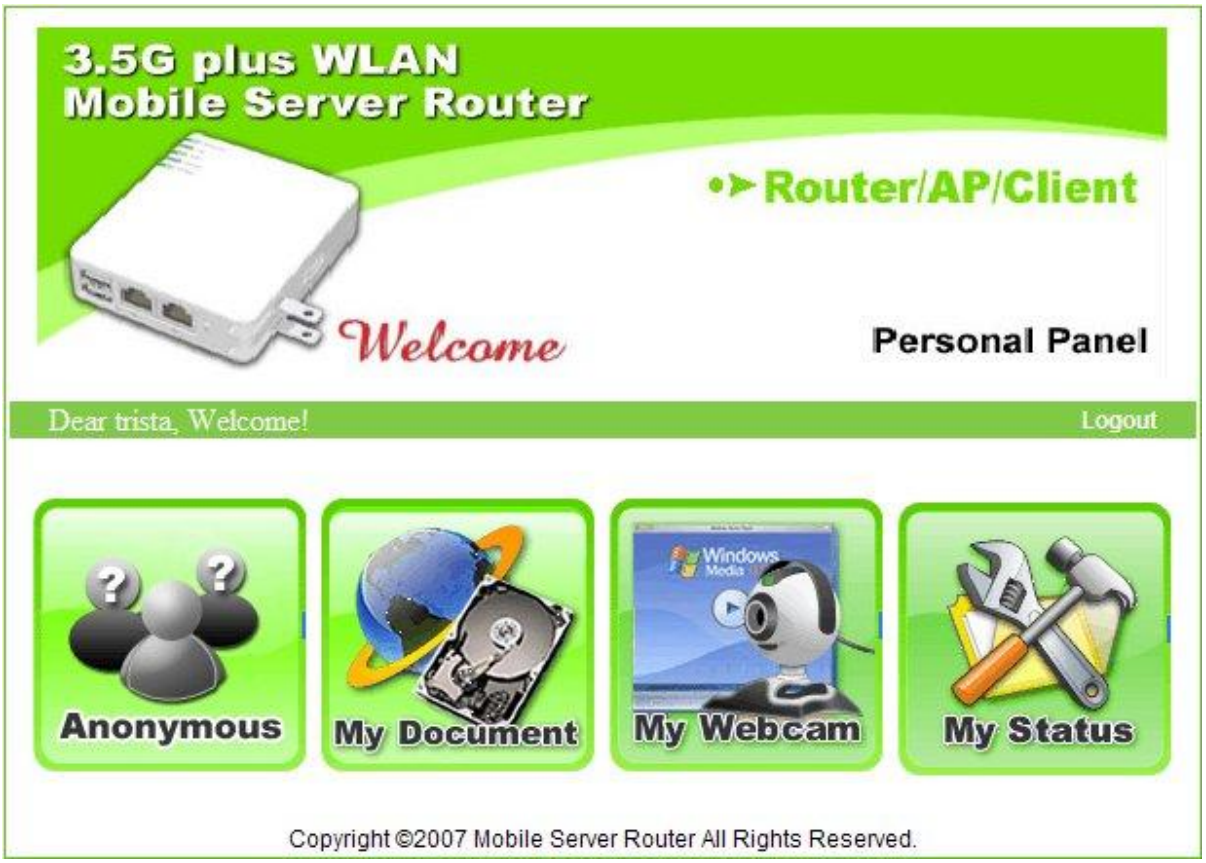
Notice: If the homepage doesn't appear, please check whether the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do this, please refer to ***1.5 Get your IP Automatically & Manually***.

Homepage

Click **Personal Panel** and log in with your own user account. (If you can't access your personal account, please check with administrator for validation.)

Personal Panel

Screen below shows every login user's access rights, including **Anonymous**, **My Document**, **My Webcam** and **My Status**.



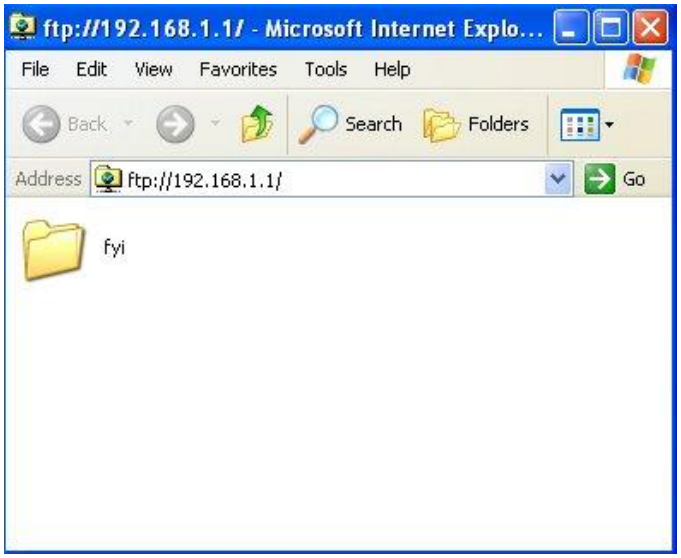
MT4205 provides personal control panel for every login user's entrance to each application screen, please click on each icon for various applications. The icons appearing in gray color can't be clicked if the user doesn't have the right to use that function; even though there is none to be set, the user can still apply **My Status**.

Notice: The available access rights are depended on administrator's authorization in ***3.6.8 User Account Management***.

3.9.1 Anonymous

"**Anonymous**" shows all the files stored in USB HDD by administrator and allows any login user to check the folder and copy files to the HD via Internet. The following is the detail description.

Click **Anonymous** to access the shared folder created by administrator and freely download those files underneath to personal hard drives.

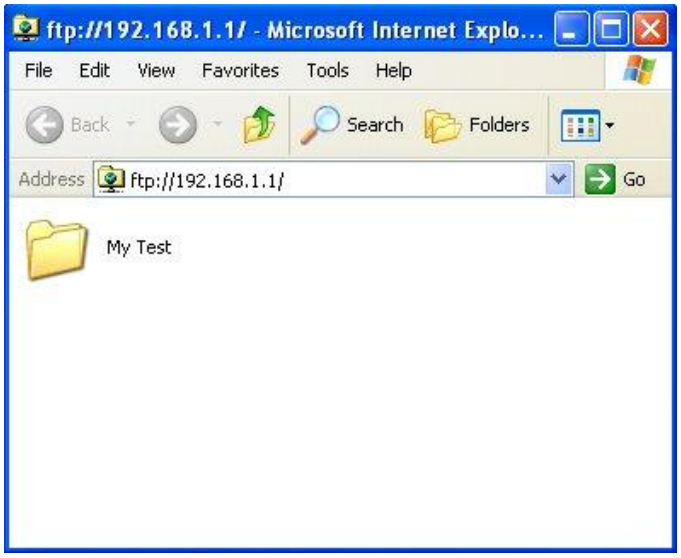


Notice: If you can't access **Anonymous** folder, please check with administrator to enable your FTP server rights. Files under this directory are only for downloading, but not for uploading, deleting, or edting.

3.9.2 My Document

"**My Document**" shows all the files in USB HDD under each user's account. Login user can also create the folder or copy files into the HD directly via Internet. The illustrated below is the detail description of folder inside.

Click **My Document** and opens another web page to show all the files in your own folder.



Notice: If you can't access this folder, please check with administrator to enable your FTP server rights.

3.9.3 My Webcam

"**My Webcam**" application allows you to view the real time image when the web camera is on.

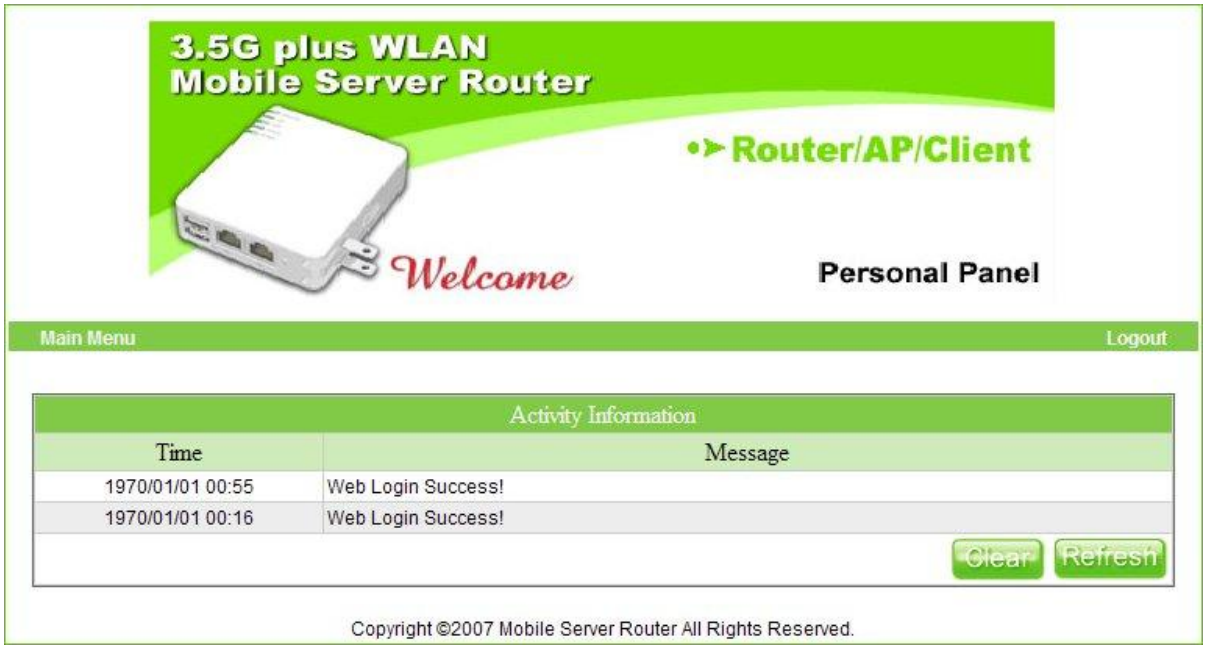
Click **My Webcam**, and the system pops up a new window to display real time image as the example below shows.

Notice: If you can't view the real-time image, the cause may be the setting of Internet Security and needs to be adjusted, or to install the Java program.

3.9.4 My Status

"**My Status**" shows all the login information for your personal account.

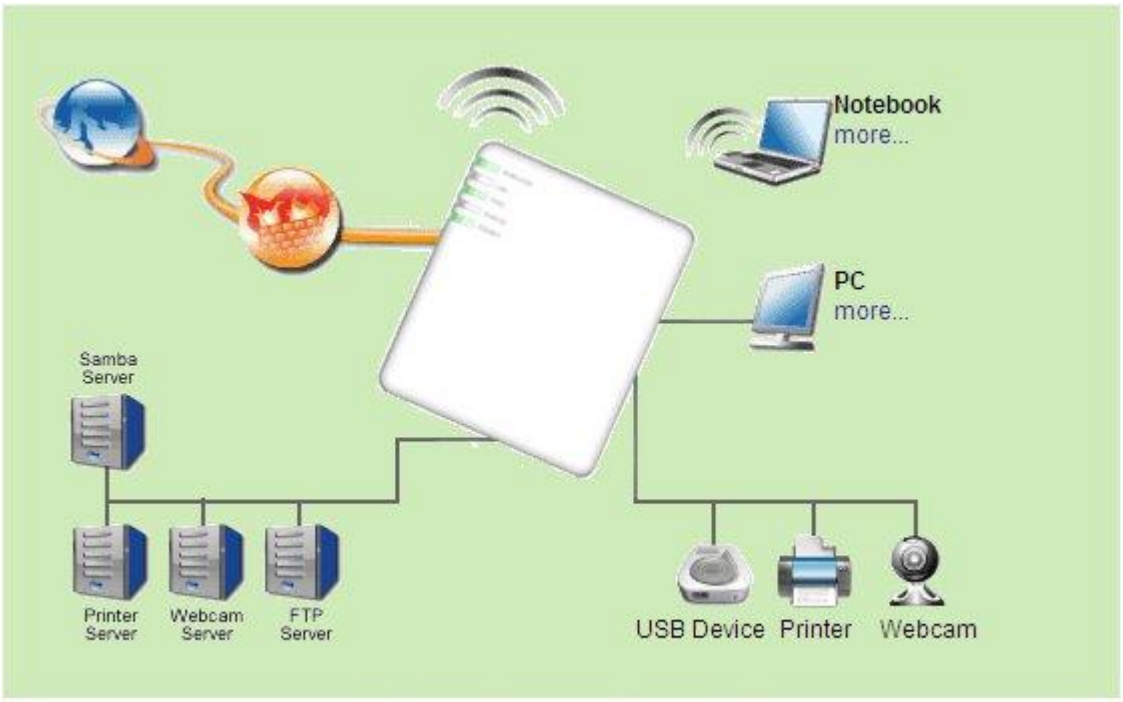
Click **Main Menu** on the left to go back main control panel and other applications.



Notice: All above usage information is based on administrator's setup.

3.10 Site Map

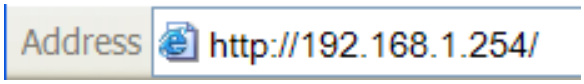
MT4205 provides site map clicking for each icon to carry out the easy setup from the home page.



Chapter 4 AP Mode

4.1 Administrator Quick Setup Instruction

Make sure to switch the mode into AP Mode, then open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://192.168.1.254 (Default Gateway) into browser's blank field.



Notice: If the homepage doesn't appear, please check whether the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do this, please refer to section ***1.5 Get your IP Automatically & Manually***.

Homepage

Please click **Administrator** to log in setup menu.

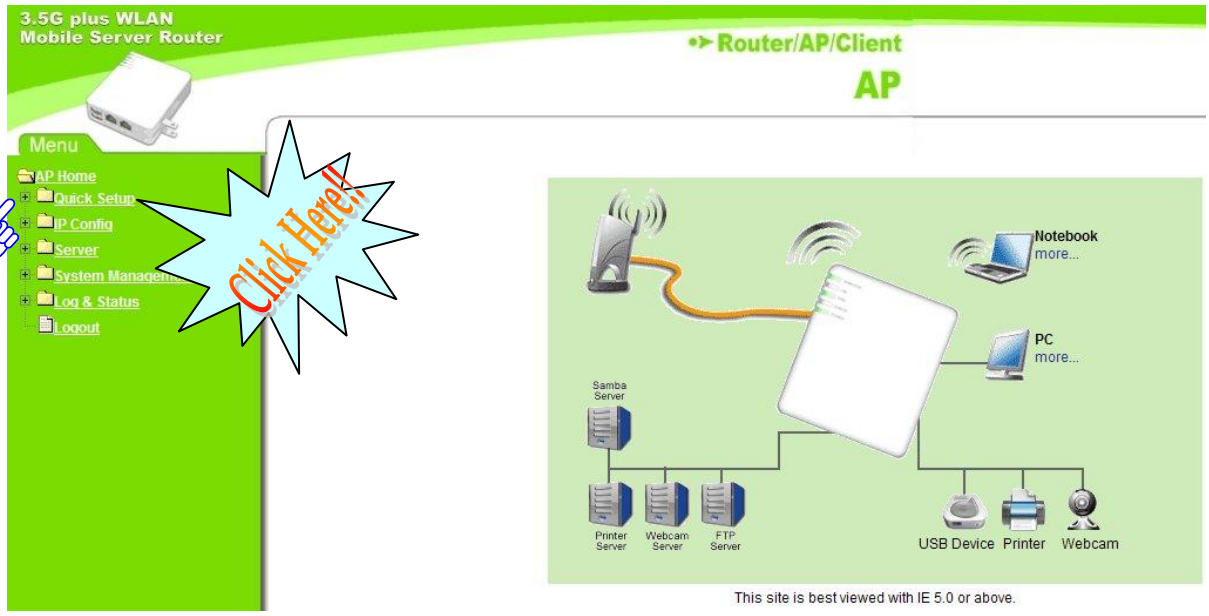
User Name and Password

The default values for User Name and Password are **admin** (all in lowercase letters). Click **Login** to enter.

Notice: Only the password can be changed, please read setup ***4.2.4 Password Setup*** or ***4.5.2 Change Password***. In order to protect your own settings, it's strongly recommended to change the password before you finish the Router Basic Setup.

4.2 Quick Setup

Typical Configuration Manager Page consists of two separate frames. The left frame contains all the means available for device configuration. Menus are indicated by file icons, and related menus are grouped into categories, such as LAN, WAN and etc., and indicated by folder icon, depending on whether the group of menus are expanded or not. You can click on any of these to display a specific configuration page. And the right frame is designed as a site map.



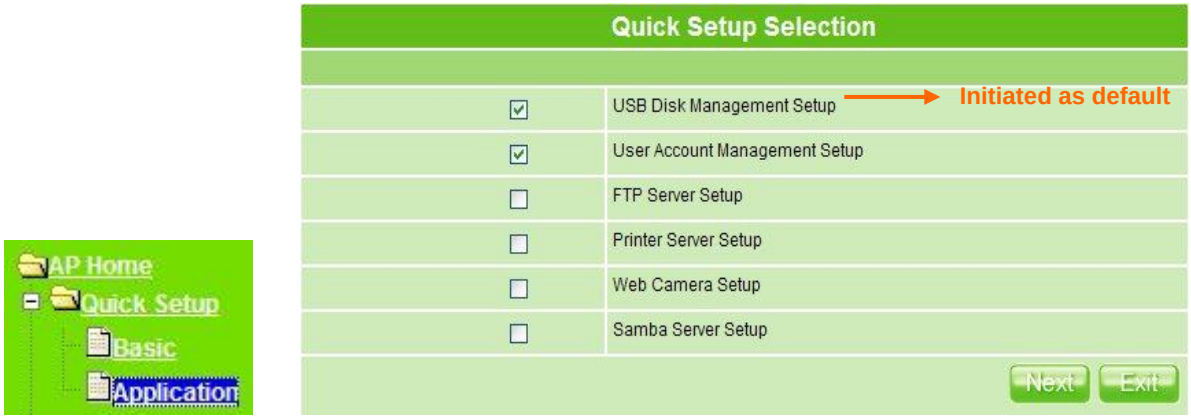
The above diagram shows all PCs and devices connected to your MT4205 and their status. Click **Quick Setup** on the left of the main menu. Then you'll see the full functionality selection screen appears and detailed settings for each item, including "**Basic**" and "**Application**" two parts.

Note: The device models named of USB Device, Webcam and Printer will be shown under the picture of each device if the product supports.

Quick Setup full function table list

- Click **Basic**, you see 4 major items set in Quick Setup Selection. Please click **Next** button after confirmed.

- Click **Application**, you see 6 major items set here, including USB Disk Management Setup, User Account Management Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup. For the checked ones are recommended, all can be selected upon your demands.

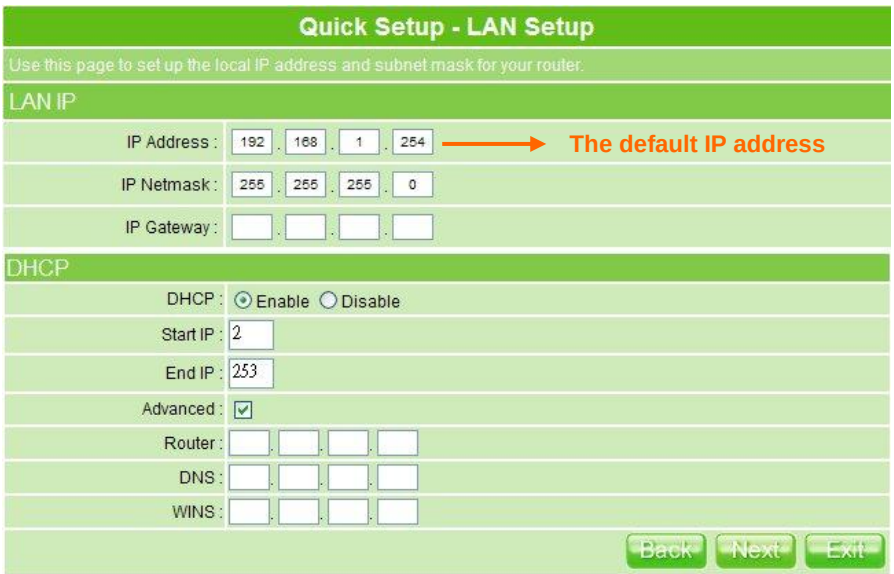


Quick Setup Instruction

- **LAN Setup:** Setup the IP Address for LAN and Group. If you are using the Router with multiple PCs on your LAN, you must connect the LAN via the Ethernet ports on the built-in Ethernet switch. You should also assign a unique IP address to each device residing on your LAN.
- **Wireless Setup:** Define the Wireless Mode, ESSID, TxRate, Channel and other wireless settings.
- **Time Server Setup:** Set time by NTP server or user define.
- **Password Setup:** To change administrator's password.
- **USB Disk Management Setup:** View the entire data folder inside each storage devices, also can do formatting and disk partition.
- **User Account Management Setup:** Set maximum user number, account and right for using personal services of your MT4205 for each user.
- **FTP Server Setup:** To enable FTP server and set controlling rules.
- **Printer Server Setup:** To enable /disable server.
- **Web Camera Setup:** To enable Web camera function.
- **Samba Server Setup:** To enable Samba server for shared documents and printer.

4.2.1 LAN Setup

If you are using MT4205 with multiple PCs on your LAN, you must connect the LAN via the Ethernet ports on the built-in Ethernet switch. You must assign a unique IP address to each device residing on your LAN. The LAN IP address identifies the router as a node on your network; that is, its IP address must be in the same subnet as the PCs on your LAN. The default LAN IP for the Internet Security Router is 192.168.1.254.


Quick Setup - LAN Setup
Use this page to set up the local IP address and subnet mask for your router.
LAN IP
IP Address : 192 . 168 . 1 . 254
The default IP address
IP Netmask : 255 . 255 . 255 . 0
IP Gateway :
DHCP
DHCP : Enable Disable
Start IP : 2
End IP : 253
Advanced :
Router :
DNS :
WINS :
Back
Next
Exit

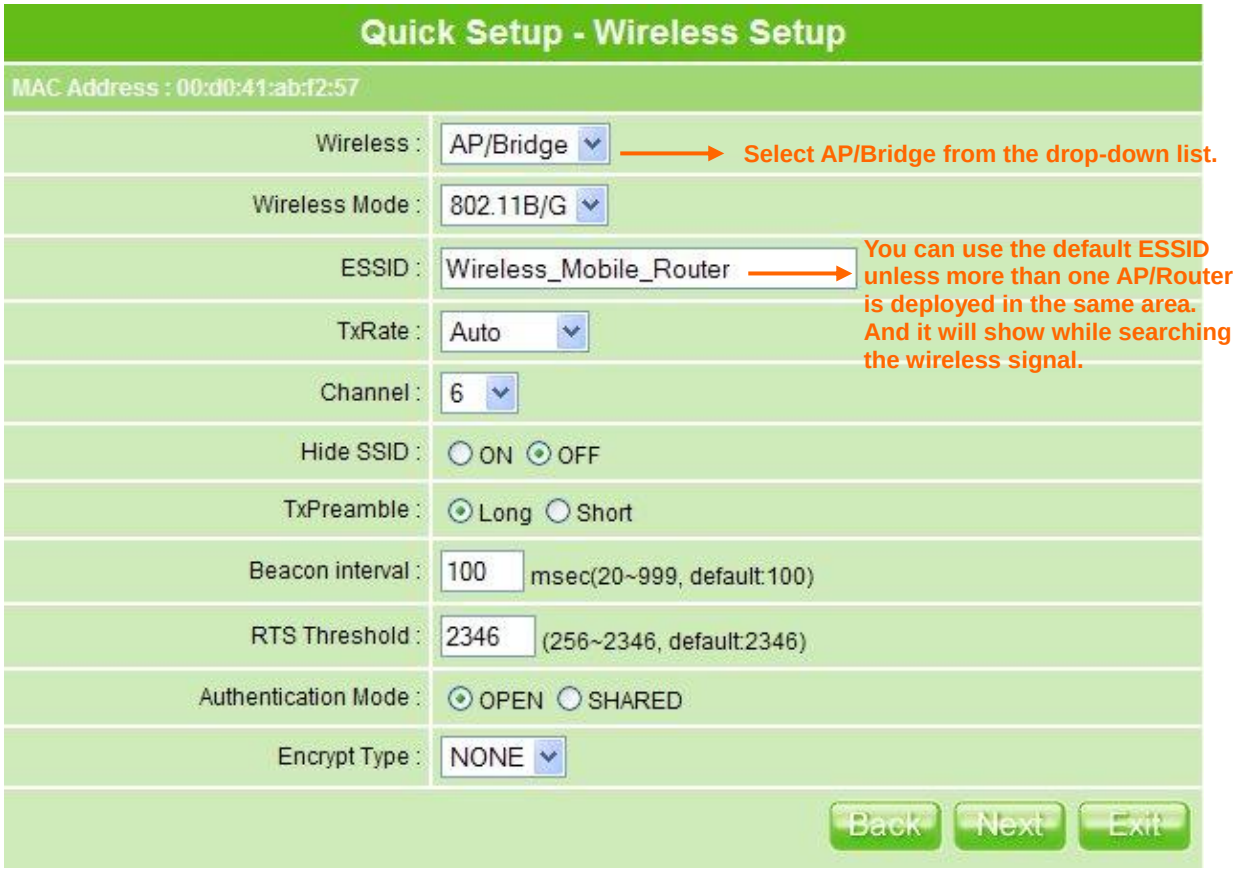
For Gateway IP Address, the IP address 192.168.1.xxx (xxx can be any number between

1 and 253 that is not used by another device.) Please don't change the default LAN IP settings at this section until after you have completed the rest of the configurations and confirm that your Internet connection is working. And the DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer; which means you must specify the starting and ending address of the IP address pool, and the DHCP Router's address must be identical to the LAN IP's IP address.

Click on **Next** button to proceed.

4.2.2 Wireless Setup

There are 2 ways of hardware connection via **Wired** upper link and **Wireless** upper link. First step is to name your ESSID, and the default value is **Wireless_Mobile_Router**. Please follow the illustrations below to proceed.

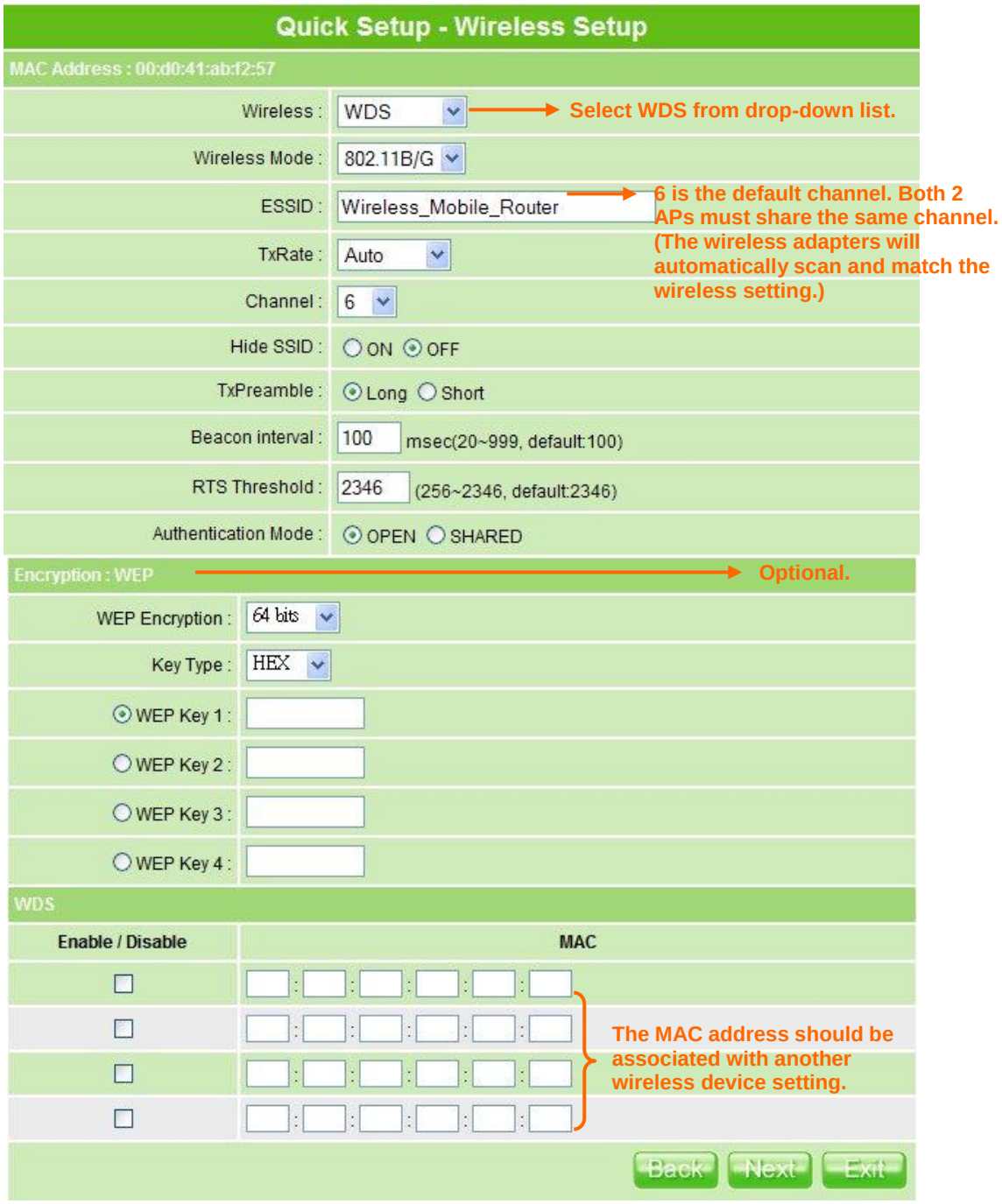


For selecting AP/Bridge wireless connection, the **Channel 6** is the default channel; all devices on the network must be set to the same channel to communication on the network. The default **TxPreamble** setting is Long (if you use high traffic networks should use the shorter preamble type). **Authentication** is the security function to prevent the connection

requests from unauthorized wireless clients. As the **Encryption Type**, select WEP or WPA can protect your data from eavesdroppers, if you do not need the encryption, select “None” to skip the following setting.

After checking each above and choose the suitable item by demand, click **Next** to proceed.

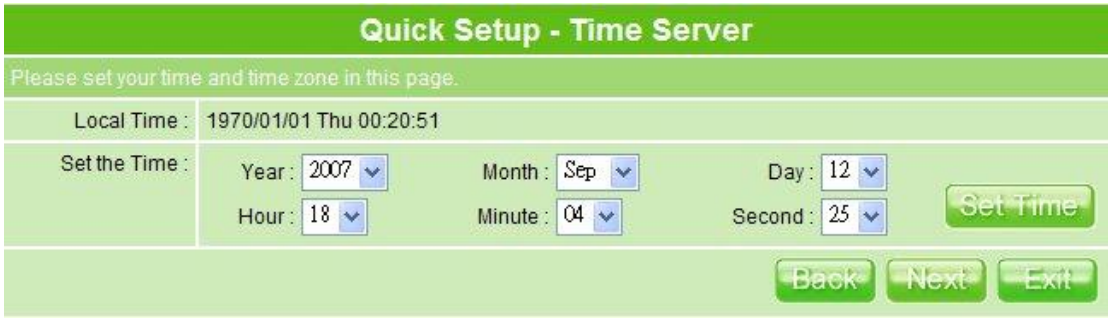
Notice: If uses AP/Bridge to wirelessly connect to the router, here suggests disabling the DHCP in LAN Setup. Please refer to ***4.2.1 LAN Setup***.


Quick Setup - Wireless Setup
MAC Address : 00:d0:41:ab:f2:57
Wireless : WDS
Select WDS from drop-down list.
Wireless Mode : 802.11B/G
ESSID : Wireless_Mobile_Router
6 is the default channel. Both 2 APs must share the same channel. (The wireless adapters will automatically scan and match the wireless setting.)
TxRate : Auto
Channel : 6
Hide SSID : ON OFF
TxPreamble : Long Short
Beacon interval : 100 msec(20~999, default:100)
RTS Threshold : 2346 (256~2346, default:2346)
Authentication Mode : OPEN SHARED
Encryption : WEP
Optional.
WEP Encryption : 64 bits
Key Type : HEX
WEP Key 1 :
WEP Key 2 :
WEP Key 3 :
WEP Key 4 :
WDS
Enable / Disable
MAC
The MAC address should be associated with another wireless device setting.
Back
Next
Exit

Moreover, **WDS** (Wireless Distribution System) is a Wireless Access Point mode that enables wireless bridging in which WDS APs communicate with each other only (without allowing for wireless clients or stations to access them), and/or wireless repeating in which APs communicate both with each other and with wireless stations (at the expense of half the throughput), please input the other party's MAC address into the WDS column.

4.2.3 Time Server Setup

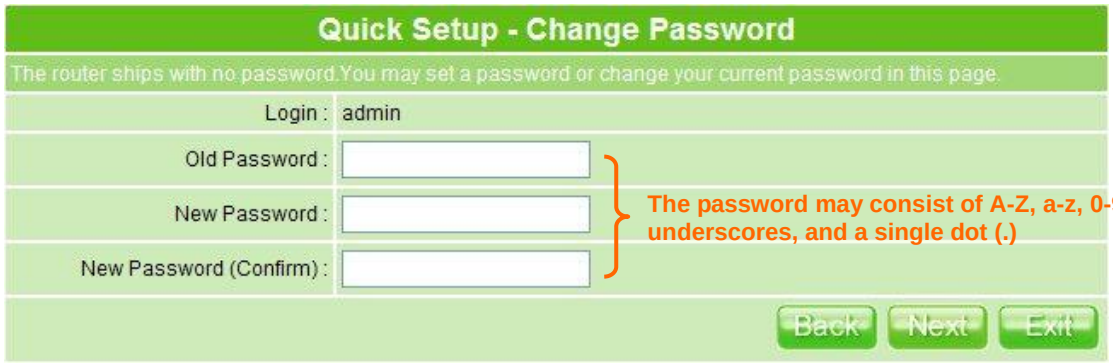
MT4205 shows local date and time; however, the time still can be changed manually by selecting from the drop-down list, which won't effect the original time setting on your PC.



After completed, click **Next** to proceed.

4.2.4 Password Setup

Here suggests changing the password for logging into the configuration manager in terms of security reason.


Quick Setup - Change Password
The router ships with no password.You may set a password or change your current password in this page.
Login :
admin
Old Password :
New Password :
New Password (Confirm) :
The password may consist of A-Z, a-z, 0-9, underscores, and a single dot (.)
Back
Next
Exit

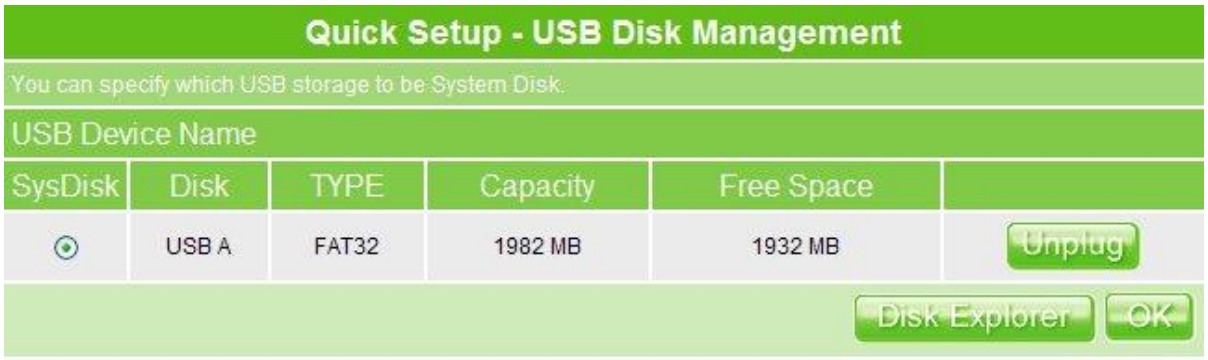
For changing password, please fills the password information into blank fields, and then click **Next**.

Notice 1: Only the password can be changed, the user name for administrator is "**admin**" and not to be changed.

Notice 2: If you forget administrator's password, please reset MT4205 to default setting by pressing the "**Reset**" button on the rear panel over 5 seconds. And the password will return to "**admin**".

4.2.5 USB Disk Management Setup

Easy to check all the USB storage devices connected to your MT4205, view the entire data folder inside each storage device, and you can manage the disk formatting/partitioning via click on the button of this page.

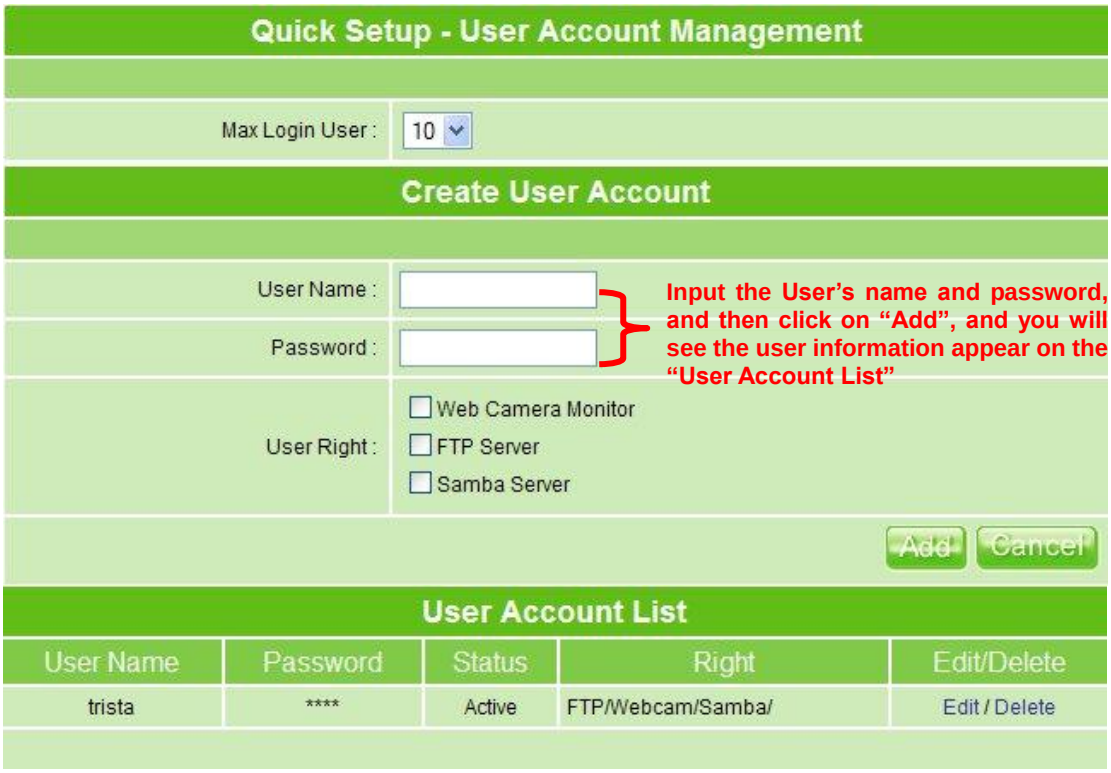


Select the USB Disk and click **OK** for refreshing all disks before you do disk partition, and the **Unplug** button will appear. To partition/format the disk, please select the disk and click **Format**. Moreover, if you want to view the data inside the disk, please go to ***4.2.7 FTP Sever Setup*** to enable FTP server and then click **Disk Explorer** to view all folders inside the device.

Notice: You have to click on **Unplug** button before removing USB devices from MT4205.

4.2.6 User Account Management Setup

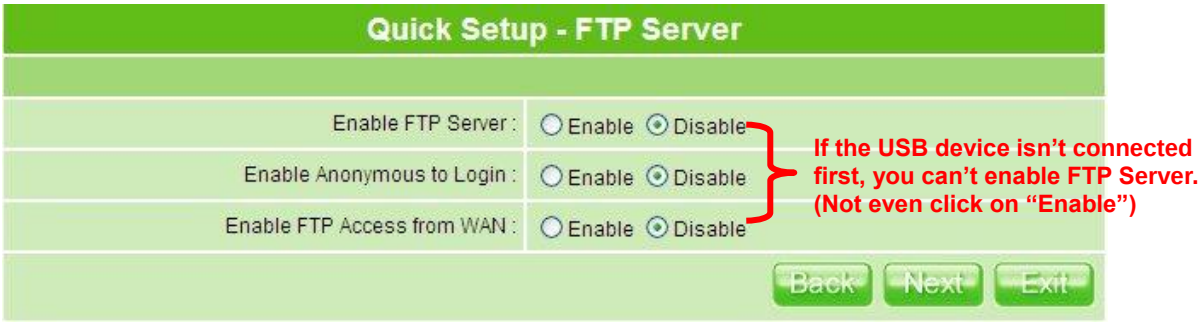
Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and can be edited or deleted by clicking the meaning text.



Set each user's right and space arrangement, and then click on **Add** button for saving user's account. Click on **Next** button after finished.

4.2.7 FTP Server Setup

MT4205 can be the FTP Server providing users to transmit files, also for the guest to download the files from assigned website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.



Set the FTP Server and related setting. Disable the function as demand, and click **Next** to continue.

4.2.8 Printer Server Setup

MT4205 supports LPR-protocol, as well as NetBIOS, and is convenient for sharing printer. In other words, it is an Internet access solution for your LAN/WAN, which provides you the shared web surfing, and supports USB interface printer. Any users in the same subnet of MT4205 can print their document via the network printers.

Enable the printer and click on **Next** button to next setup.

Notice: After above Printer Server in Quick Setup finished, the related printing settings on MT4205 and PC have to be set up, too. Please refer to ***4.4.4 Printer Server*** to set the details.

4.2.9 Web Camera Server Setup

If you plan to use MT4205 as a Web Camera site, just connect a supported USB Web Camera to its USB port. Then check **Enable** for both **Enable webcam server** and **Access from WAN** to activate.

Click on **Next** button to next step.

Notice: Before webcam server enabled, please make sure the webcam has connected to the product; otherwise, the "**Enable**" selection can't be checked.

4.2.10 Samba Server Setup

MT4205 supports NetBIOS protocol, providing network neighbors to share file folders or printer.

Click on **Next** button to next setup.

4.2.11 Quick Setup Finish

The Quick Setup has been completed successfully when you see this screen.

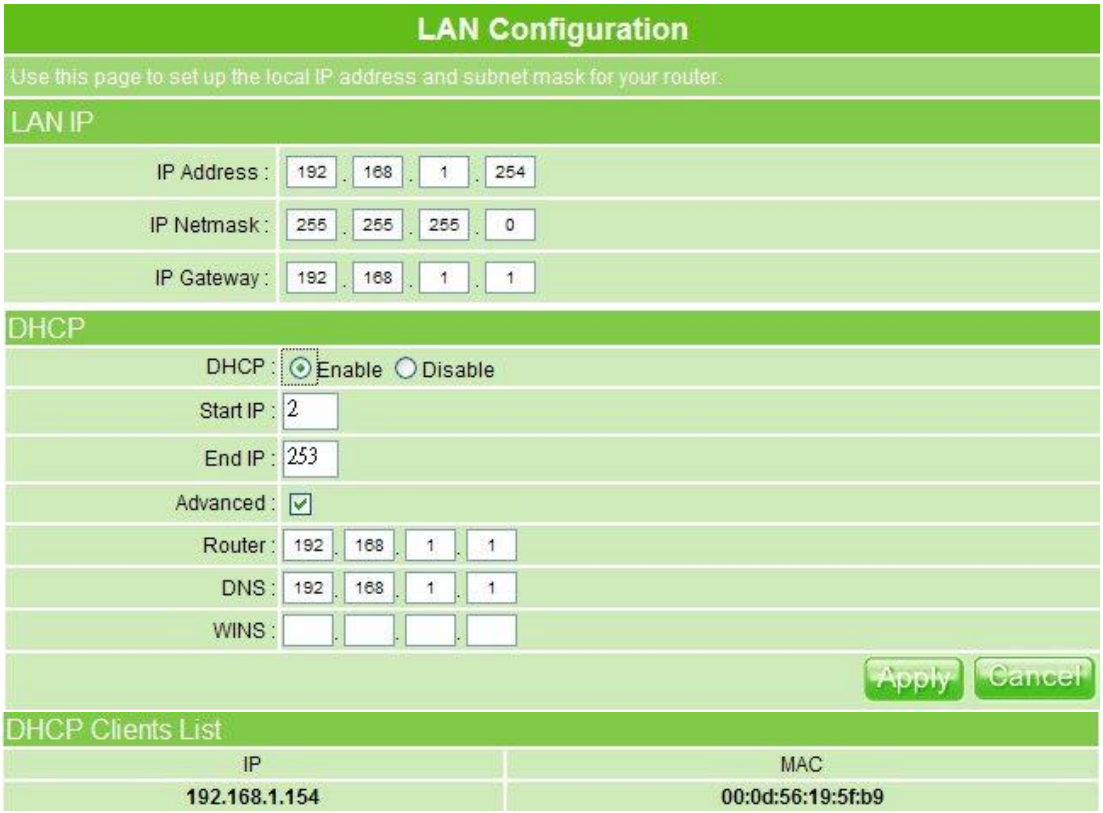
To apply your new settings, please click on **Finish** button to reboot system automatically and go to the product's diagram homepage. You may connect to Internet via wired or wireless at this moment according to above settings.

4.3 IP Configuration

This function allows you to add routing rules into MT4205. It doesn't provide functions of WAN and DDNS in AP mode, though.

4.3.1 LAN

Use this page to set up the local IP address and subnet mask for your router. Please select **LAN** under **IP Config** directory and follow the instructions below to enter the LAN setting page to configure the settings you want.


LAN Configuration
Use this page to set up the local IP address and subnet mask for your router.
LAN IP
IP Address : 192 . 168 . 1 . 254
IP Netmask : 255 . 255 . 255 . 0
IP Gateway : 192 . 168 . 1 . 1
DHCP
DHCP : Enable Disable
Start IP : 2
End IP : 253
Advanced :
Router : 192 . 168 . 1 . 1
DNS : 192 . 168 . 1 . 1
WINS :
Apply
Cancel
DHCP Clients List
IP
MAC
192.168.1.154
00:0d:56:19:5f:b9

1. **IP Address**

   The default value of LAN IP address is **192.168.1.254** for this router.

2. **IP Netmask**

   Fill in Subnet Mask, normally it is **255.255.255.0**.

3. **IP Gateway**

   Fill in with the default gateway address. If you don't know, please check your ISP.

4. **DHCP**

   Enable or disable DHCP services. DHCP server will automatically allocate an unused IP address from the IP address pool to the requesting computer if enabled.

5. **Start IP**

   This field specifies the first address in the pool to be assigned by DHCP server in your local network. The default setting is 2.

6. **End IP**

   This field specifies the last address in the pool to be assigned by the DHCP server in your local network. The default setting is 253.

7. **Advanced**

   Enable the advance setting and then set up the Router, DNS and WINS value.

8. Router

This field indicates the IP address of DNS to provide to clients that request IP Address from DHCP Server, the default setting is the same with LAN IP address.

9. DNS

This field indicates the IP address of DNS to provide to clients that request IP Address from DHCP Server, the default setting is the same with LAN IP address.

10. WINS

Windows Internet Naming Service manages interaction of each PC on the Internet. If you use a WINS server, enter IP Address of server here.

11. Apply & Cancel

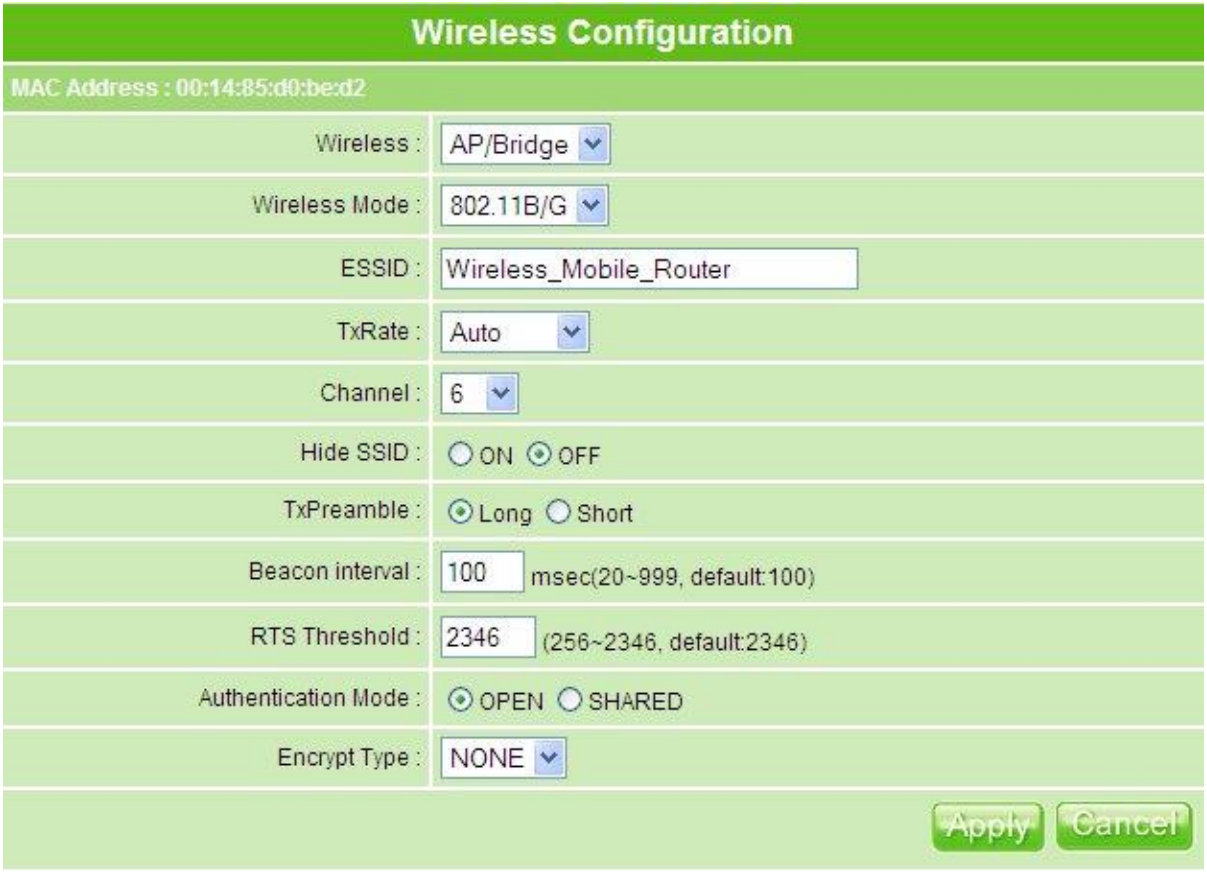
Click **Apply** to continue or **Cancel** to clear the settings on this page.

12. DHCP Clients List

The list shows all clients' IP and MAC addresses.

4.3.2 Wireless

MT4205 enables fastest 54 Mbps IEEE802.11g wireless transmissions and keeps compatibility with existing IEEE 802.11b devices. MT4205 complies with IEEE 802.11b standard. Please select **Wireless** under the main menu. Follow the instructions to configure the **Wireless** settings.



1. **Wireless**

   Select **AP/Bridge** or **WDS** to allow or disallow the wireless operation.

2. **Wireless Mode**

   This field indicates the 802.11g interface mode. “802.11G” prevents the 802.11b clients from accessing the router. “802.11B/G” allows both 802.11b and 802.11g clients to access the router. “802.11B” will enable the network as an 802.11b wireless network. By default, the mode is “**802.11B/G**”.

3. **ESSID**

   You can use the default ESSID and radio channel unless more than one MT4205 or access point is deployed in the same area. Under this situation, it is advised that you should use a different ESSID and radio channel for each of MT4205 or access point in order to distinguish from each other. All of MT4205s and your wireless LAN cards must have the same ESSID to allow a wireless mobile client roaming inbetween. By default, the ESSID is set to **Wireless_Mobile_Router**.

4. **TxRate**

   Select the transmission rate for the network. The default setting is **Auto.**

5. **Channel**

   IEEE 802.11g and 802.11b devices are direct sequence spread spectrum devices that spread a radio signal over a range of frequencies. The range of frequencies used by a direct sequence device is called Channel.

The 802.11g and 802.11b specification supports up to 14 overlapping Channels for radio communication. But only 11 Channels are supported in the United States and therefore built-in on MT4205. To minimize interference, configure each of MT4205 to use Non-overlapping channels. Non-overlapping channels have 25 MHz separation beginning at the first allowed channel for the country (for the US and most of Europe, channel 1, 6 & 11 are used.)

Make sure that MT4205 sharing the same Channel (or Channels close in number) is as far away from each other as possible, based on the results of your site survey of the facility. You can find the site survey utility in MT4205's setup CD. By default, the channel is **6**.

6. **Hide SSID**

   This term is used to increase the security level. Check it to hide SSID information against the wireless clients that are sniffing radio. By default, this option is inactive.

7. **TxPreamble**

   The default **TxPreamble** setting is Long (if you use high traffic networks should use the shorter preamble type)

8. **Beacon Interval**

   Beacons are packets sent by an access point to synchronize a wireless network. Specify a beacon interval value. Default (100) is recommended.

9. **RTS Threshold**

   This value should remain at its default setting of 2346. If you encounter inconsistent data flow, only minor modifications to the value range between 256 and 2346 are recommended

10. **Authentication Mode**

    Four authentication methods are supported: Open and Shared. Select **Open**, your wireless network would be intruded by anonymous. Not only your network bandwidth would be shared; but also transmitting data might be intercepted. Select **Shared** function and it can be taken effect.

11. **Encrypt Type - WEP**

    There are two types of encrypt type can be selected, including WEP and WPA.

    WEP Encryption: Enabling WEP can protect your data from eavesdroppers. If you do not need this feature, select "None" to skip the following setting. MT4205 supports both 64-bit and 128-bit encryption using the Wired Equivalent Privacy (WEP) algorithm. Select the type of encryption you want to use (64 or 128 bit) and configure one to four WEP Keys. The "1280bit" method is more secure than the "64-bit".

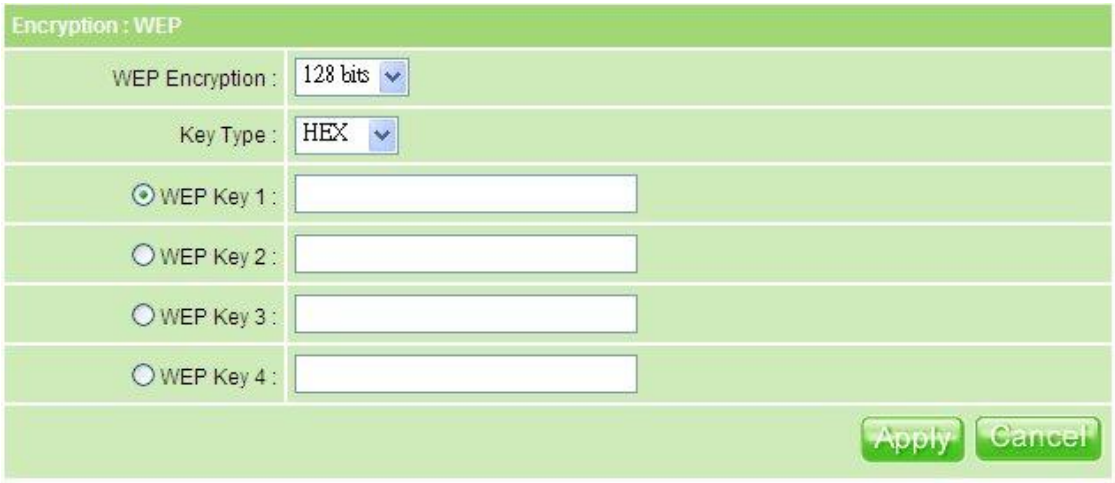
    Key Type: For 64bits WEP key, either 5 ASCII characters or 10 hexadecimal digitals leading by **0x** can be entered. For 128bits WEP key, either 13 ASCII characters or 26 hexadecimal digits leading by **0x** can be entered.

Note: 128 bits WEP is most secure, but has more encryption/decryption overhead. Note that all wireless devices must support the same WEP encryption bit size and have the same key. Four keys can be entered here, but only one key can be selected at a time. The keys can be entered in ASCII or Hexadecimal. Select the item from drop-down list you wish to use.

Pass phrase: Automatically generate four WEP keys. A WEP key is either 10 or 26 hexadecimal digits (0~9, a~f, and A~F) based on whether you select 64 bit or 128 bit in the WEP drop-down menu. Type a combination of up to 64 letters, numbers, or symbols in the blank, MT4205 uses an algorithm to generate four WEP keys for encryption. If you want to type in the keys manually, leave this field blank.

Note: This function eases users from having to remember their passwords. But this isn't as secure as manual assignment.

WEP Key: At most four keys can be set. A WEP key is either 10 or 26 hexadecimal digits (0~9, a~f, and A~F) based on whether you select 64 bit or 128 bit in the WEP drop-down list. MT4205 must have at least the same default key.



12. Encrypt Type - WPA

The WPA encrypts each frame transmitted from the radio using the pre-shared key (PSK) which entered from this panel or a key got dynamically through 802.1x.

WPA-PSK (TKSP): Allow the access from WPA clients simultaneously and the encryption keys are given from PSK respectively.

WPA Rekey Timer: Allows for the session keys to be refreshed over time, minimizing the amount of data that is encrypted with the same session key.

ASKII: The 8~63 ASCII characters can be entered, for example, "0123456789ABCD…."

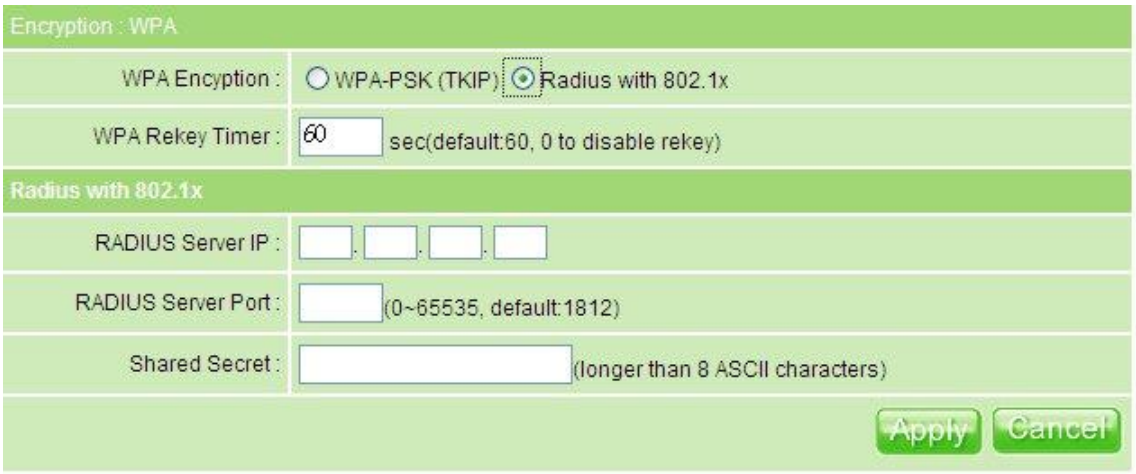
Radius with 802.x: Check this circle to enable Radius client function.

WPA Rekey Timer: Allows for the session keys to be refreshed over time, minimizing the amount of data that is encrypted with the same session key.

RADIUS Server IP: The IP address of RADIUS server.

RADIUS Server Port: The UDP port number that the RADIUS server is listed. The default value is 1812.

Shared Secret: The RADIUS server and client share a secret that is used to authenticate the messages sent between them. You must configure both sides to sue the same shared secret.



13. Apply & Cancel

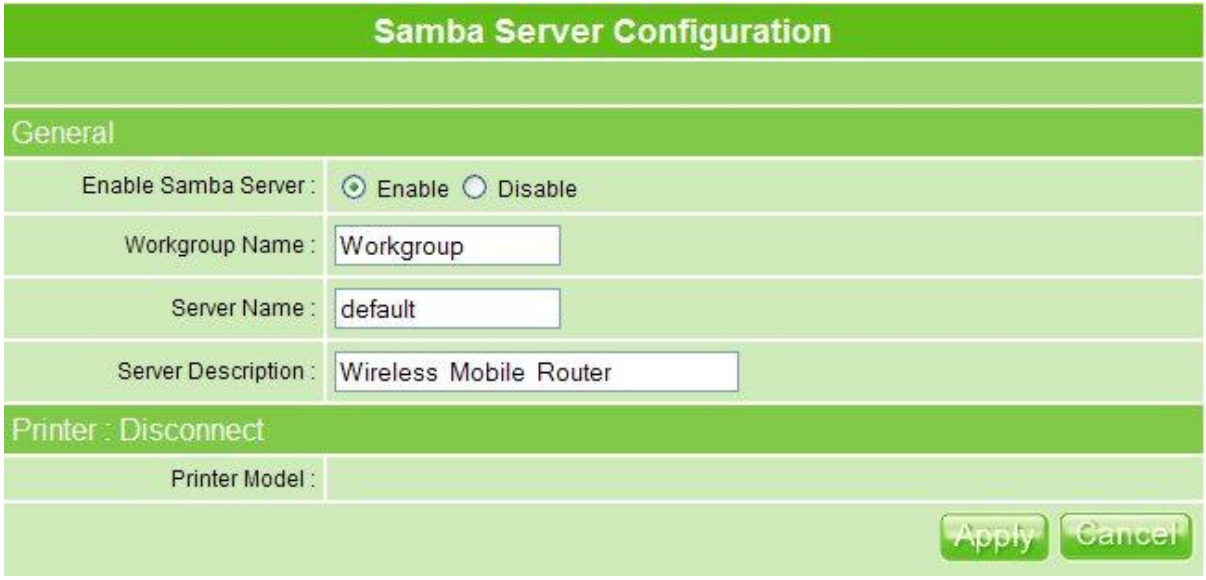
Click **Apply** to save or **Cancel** to clear the settings. The functional button, **Cancel**, can take effect after clicking on **Apply** button.

4.4 Server

MT4205 provides 4 server setups, including FTP Server, Web Camera Server, Printer Server and Samba Server.

4.4.1 Samba Server

By supporting NetBIOS Protocol, MT4205 provides LAN users to share files or printer via My Network Places. Click **Samba Server** to proceed.



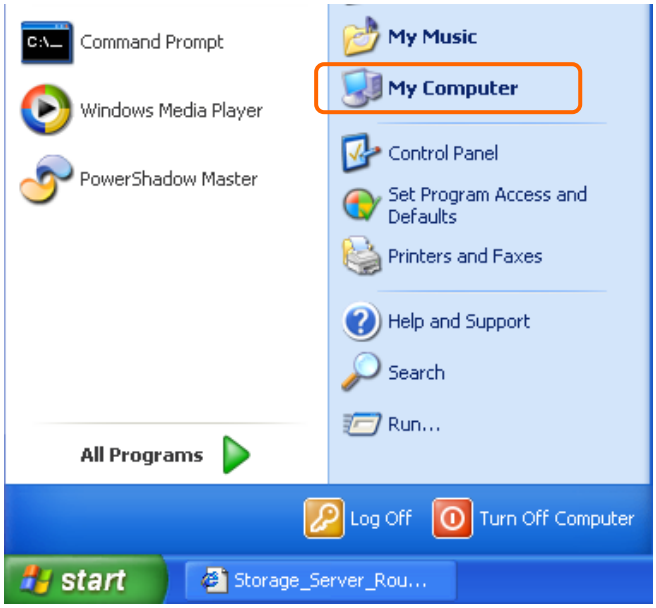
1. **Enable Samba Server**
   Check to **Enable**/**Disable** while connecting.
2. **Workgroup Name**
   Fill in the name, and the default is **Workgroup**.
3. **Server Name**
   Name your server.
4. **Server Description**
   Describe your server by demand, and the default is **Wireless Mobile Router**.
5. **Printer Model**
   Printer model appears when connected.
6. **Apply & Cancel**
   Click **Apply** to save or **Cancel** to clear settings.

4.4.1.1 How to Access File Sharing Directory

Please follow the steps below.

【Step 1】

Go to **Start** and click **My Computer**.



【Step 2】

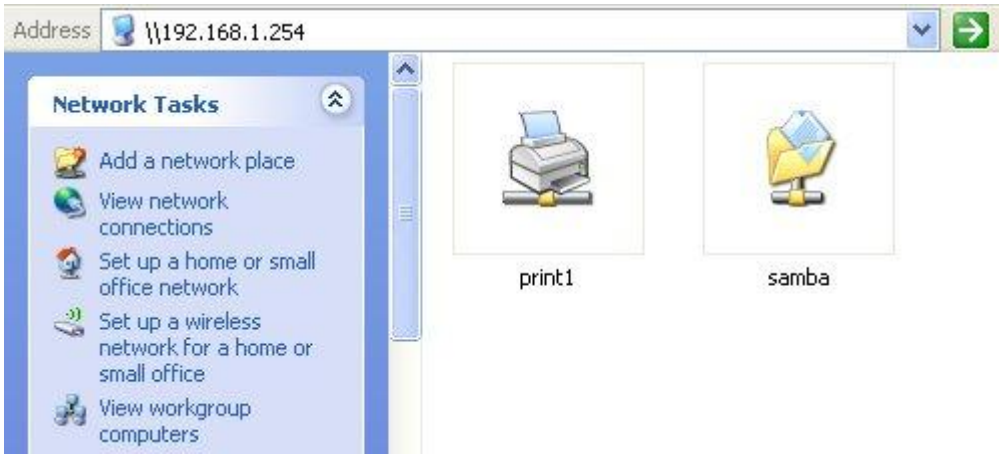
Fill in blank address field with \\192.168.1.254.

【Step 3】

A window pops up asking for user name and password. If log in as an administrator, please enter **admin** for both fields; otherwise, fill in with personal account and password. Click **OK** after finished.

【Step 4】

As the window below appears, login user has entered file sharing directory, and the folders underneath are all available for sharing locally.

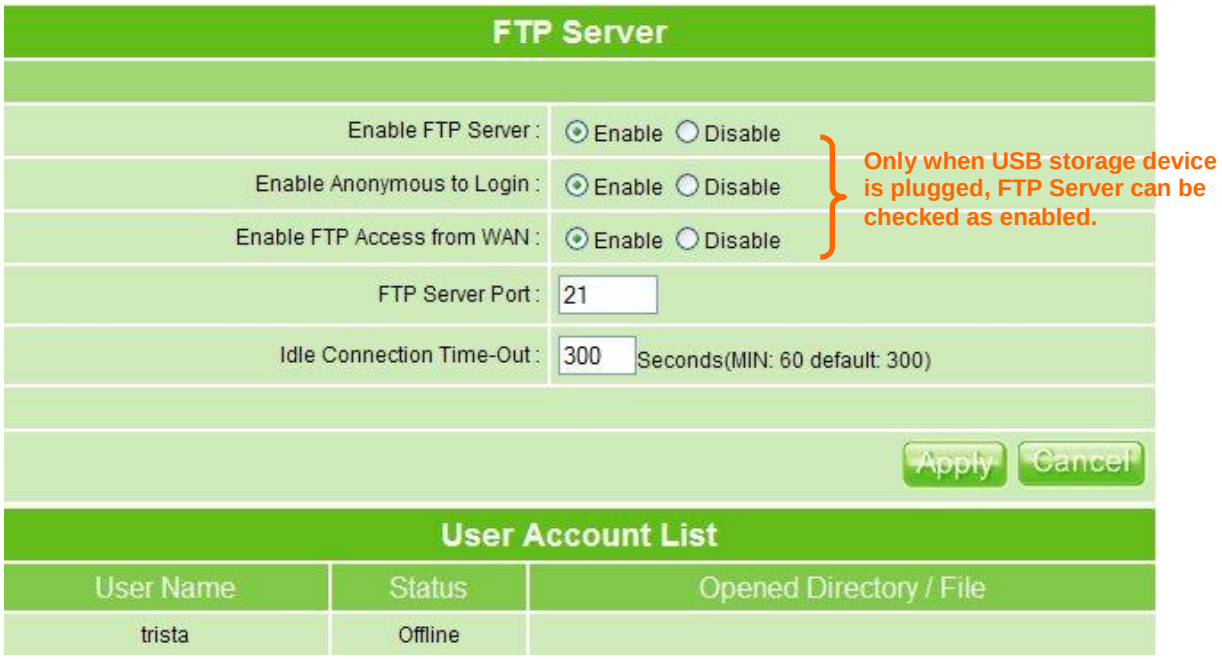


Note: Only **2** icons show up at most.
1. If a USB flash drive/hard disk is connected and enabled, the **samba** folder shows up.
2. If a USB printer is connected and enabled, the **printer** icon shows up.

4.4.2 FTP Server

By directly connecting USB storage devices to any USB port, FTP server can be created with simple configuration. FTP Server utility allows both local and remote users to upload or download files, pictures or MP3 music from the same storage device in most easy and timely fashion. It is also cost effective where users do not need to purchase a dedicated PC to set up a 24 hours FTP service.

Before configuring FTP Server, please make sure the storage device is properly plugged into any USB port on the router and make sure this USB storage device is detected by the router.



1. **Enable FTP Server:** The Enable for FTP Server only can be selected when USB storage device plugged.
2. **Enable Anonymous to Login:** Allow anonymous to login after check on enable.
3. **Enable FTP Access from WAN:** Allow FTP access from WAN side by checking on Enable for this item.
4. **FTP Server Port:** Define the FTP command transfer service port. If you want to change this port number, also remember to change the service port setting of your FTP client.
5. **Idle connection Time-Out:** When a specific time value is added, FTP Server will be de-activated if it has no activity within the time limit.
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.
7. **User Account List**
   The list shows all user names, status and opened directory/files.

Notice: FTP server is compatible with FAT32 or EXT3 format USB storage device. In case you need to format your USB storage device. Please always make sure the device is formatted with FAT32 or EXT3 standard.

4.4.3 Web Camera Server

MT4205 has built-in Web Cam Server. By connecting web camera to the router, it allows user to monitor their home or office from remote locations. **Motion Detection** function has also been built-in and allows user to use webcam to detect any movements in their houses or offices and send email alert with captured images.

4.4.3.1 Web Camera Server Basic Setup

1. **Enable Webcam Server:** Allow using this function by checking on enable.
2. **Access from WAN:** Allow webcam can access from WAN side by checking on enable for this item.
3. **Image format:** The default is 320 x 240 pixels.
4. **Preview:** Click on this button, you can preview the image from webcam.
5. **Record Setting:** Please see the detail advance setting in **4.4.3.2 Web Camera Server Advanced Configuration.**
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.

4.4.3.2 Web Camera Server Advanced Configuration

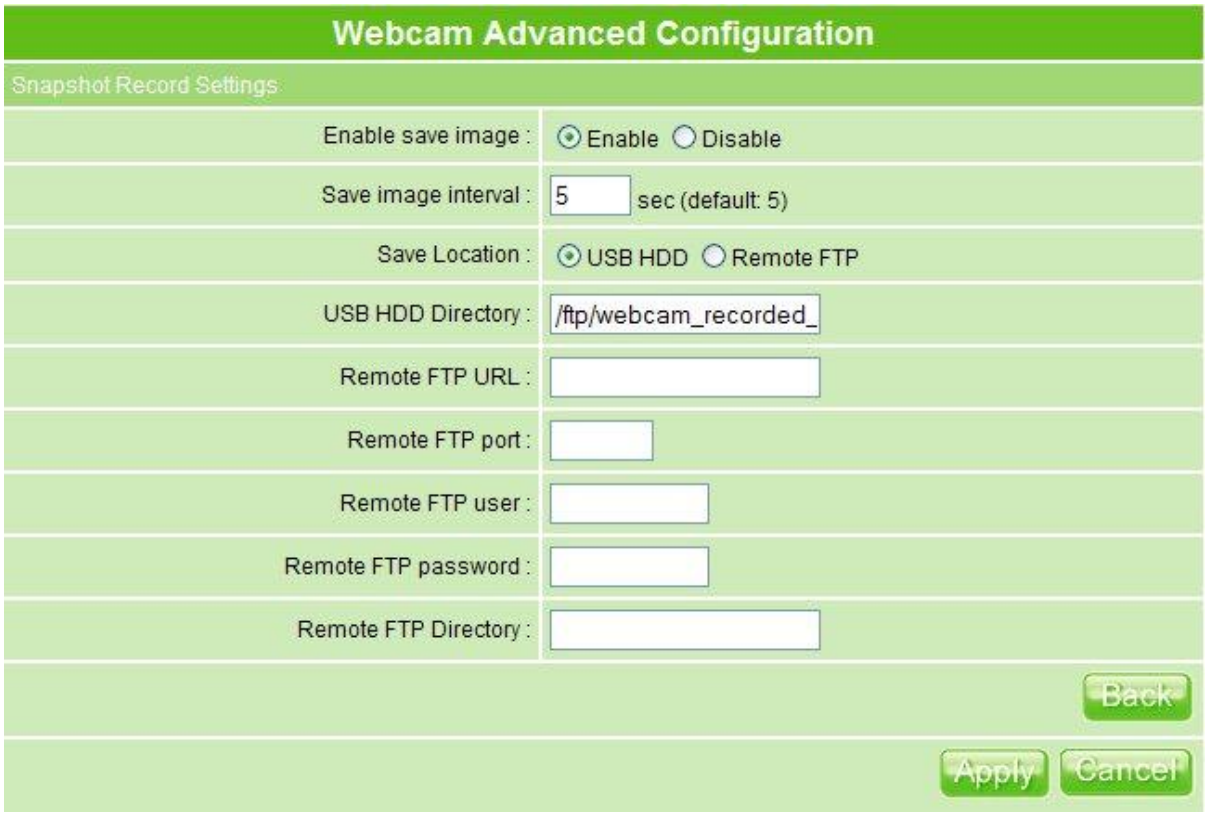
Click **Record Setting**, and the screen below appears.

1. **Enable save image:** If you want to save the image from webcam, please check on enable.
2. **Save image interval:** For saving image, you can set the save interval time, the default value is 5 seconds.
3. **Save Location:** Set the save location for webcam image, you may save into USB

HDD or remote FTP; if select save to remote FTP, please continue following remote FTP setting.

4. **USB HDD Directory:** The section provides option of which folder should be used for saving webcam image.
5. **Remote FTP URL:** Input the FTP URL for saving webcam image.
6. **Remote FTP port:** Input the FTP port number under URL to save image.
7. **Remote FTP user:** Enter the user's name you like and it will be used to save the webcam image into the FTP server.
8. **Remote FTP password:** Put in a password for validation while accessing.
9. **Remote FTP Directory:** To provide option of which folder should be used for saving webcam image.
10. **Back:** Click on **Back** button for returning to Webcam Basic Setup screen.
11. **Apply & Cancel**

    Click **Apply** to continue or **Cancel** to clear the settings on this page.



4.4.3.3 Application for Web Camera

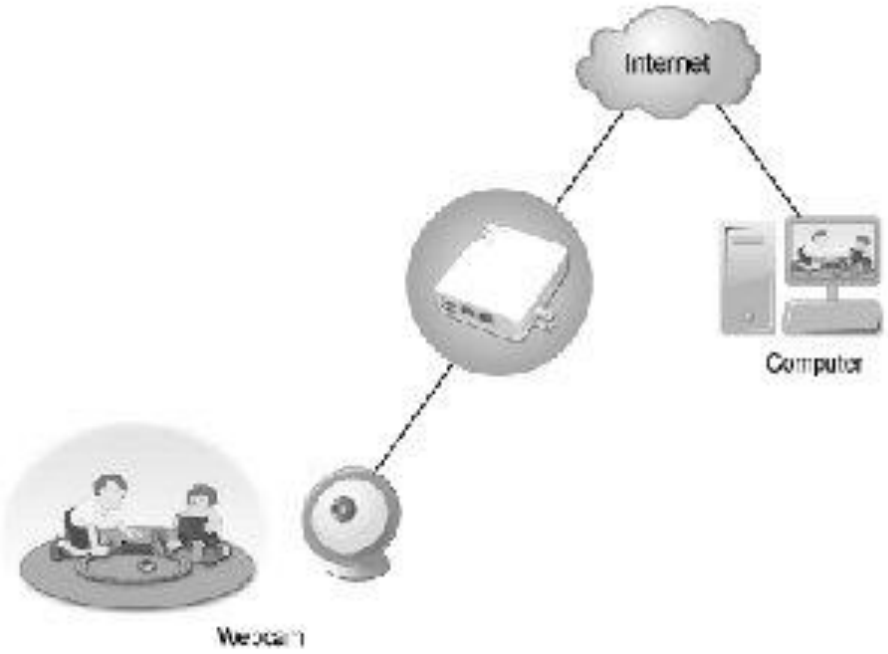
4.4.3.3.1 Web Camera Monitoring Application

Monitor your home or take pictures with a Webcam via MT4205; one can set up the monitoring or recording of all images into the USB HDD for reviewing. Often marketed as

surveillance tools for home or office security; network Webcams are now being employed by early adopters for more personal matters, such as watching kids and monitoring pets. The Webcam can be remotely accessed and controlled via a browser. In addition, record and monitor live actions with USB webcam; then view the image through Internet browsers or WiFi mobile phones, such as 3G mobiles.

4.4.3.3.1.1 Web Camera Monitoring via WAN connection

For viewing the image via WAN connection, see the diagram below.



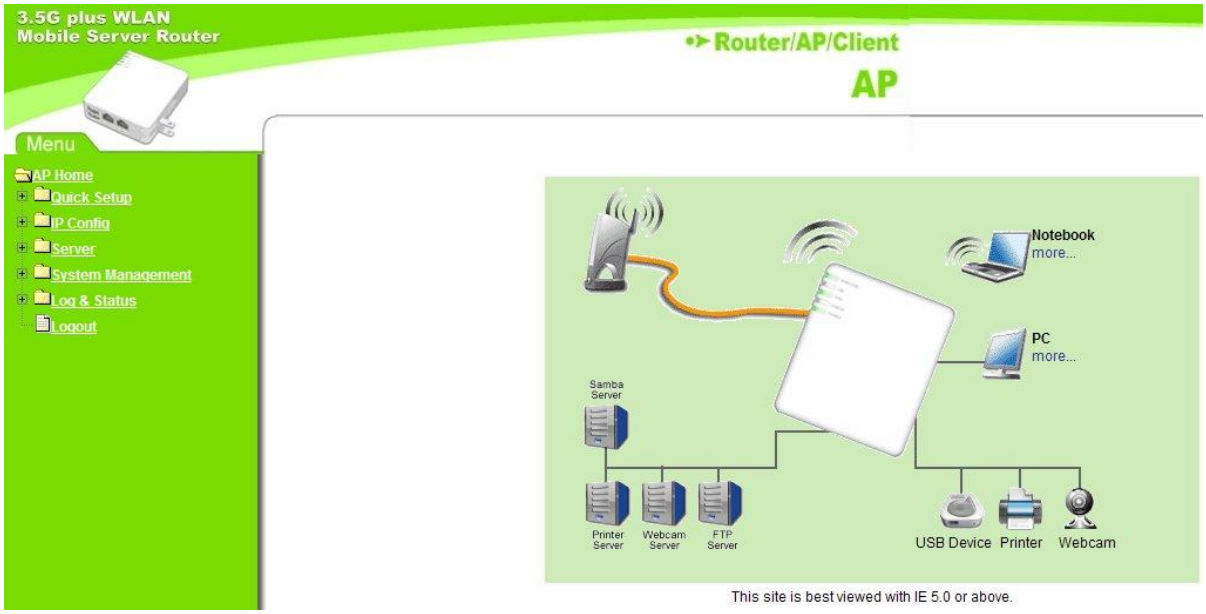
Follow instructions below to set up WAN IP address.

【Step 1】

Plug your internet wire into the LAN port and put 192.168.1.254 in web browser's address field to enter MT4205's home page. Then click **Administrator.**

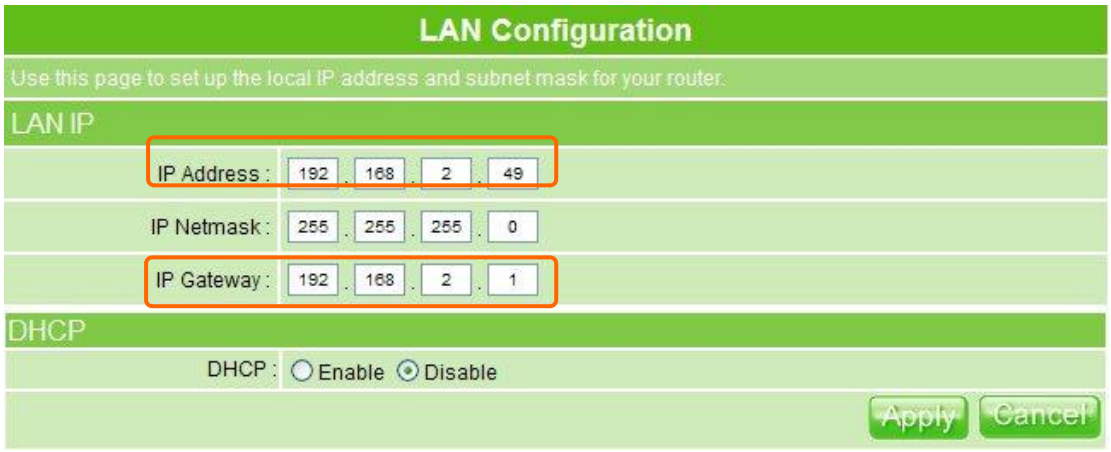
【Step 2】

Enter the default value, **admin**, for both administrator's name and password and log in the product's main menu page.



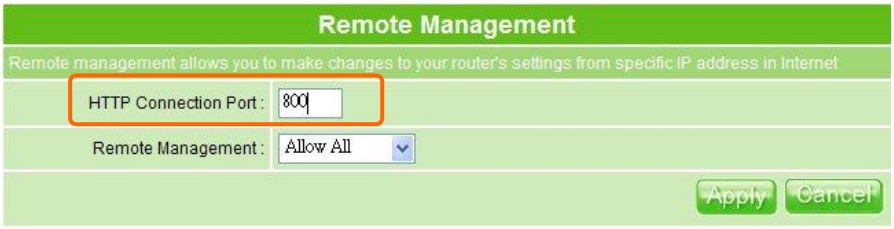
【Step 3】

Click **LAN** under **IP Config** folder on the left side menu. Then set IP Address in the same subnet with upper-layer device, for example, 192.168.2.49; 192.168.2.1 for IP Gateway. After that, disable DHCP function and click **Apply** to save the settings.


LAN Configuration
Use this page to set up the local IP address and subnet mask for your router.
LAN IP
IP Address : 192 . 168 . 2 . 49
IP Netmask : 255 . 255 . 255 . 0
IP Gateway : 192 . 168 . 2 . 1
DHCP
DHCP : Enable Disable
Apply Cancel

【Step 4】

Click **Remote Management** under **System Management** directory and change HTTP Connection Port into 800. Click **Apply** to save the settings.


Remote Management
Remote management allows you to make changes to your router's settings from specific IP address in Internet
HTTP Connection Port : 800
Remote Management : Allow All
Apply Cancel

【Step 5】

Plug another internet wire into the WAN port and apply IP **Release** & **Renew** commands via command prompt window in order to obtain new IP address. Afterwards, open your web browser and fill in http://192.168.2.49:800/webcam.html into address field, so the login webpage shows up as below.

【Step 6】

After entering user name and password, the following monitor image shows up.

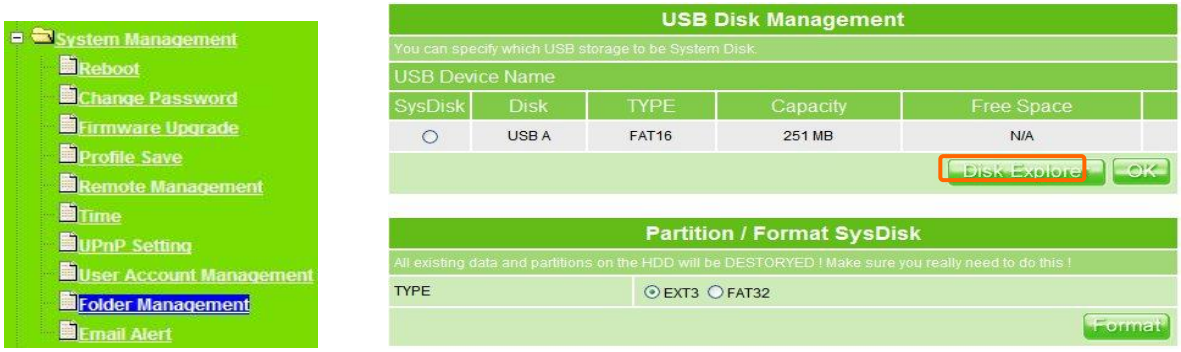
4.4.3.3.2 Web Camera Recording

4.4.3.3.2.1 Administrator Setup

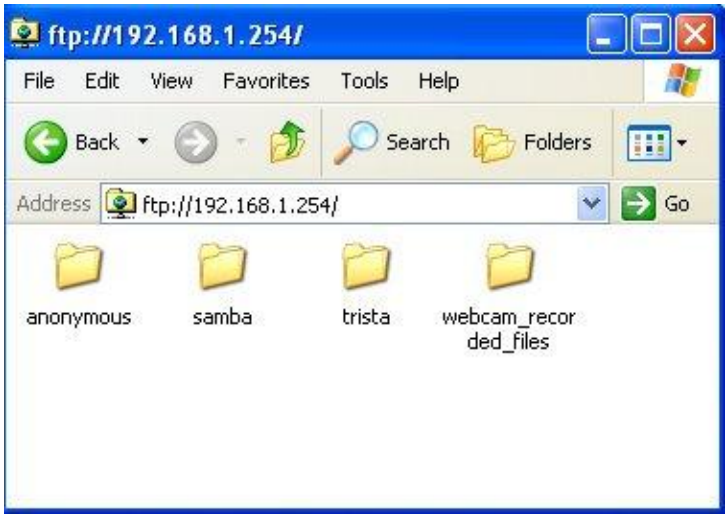
MT4205 also can record the pictures from Webcam; only ***Administrator*** can activate the settings. Select **Web Camera Server** from main **Menu** and enable this function, click on **Record Setting** button for further setting.

To set up the Webcam Advanced Configuration for each text box, the image from webcam will be recorded into your USB HDD or Remote FTP. Click on **Apply** after setup finished.

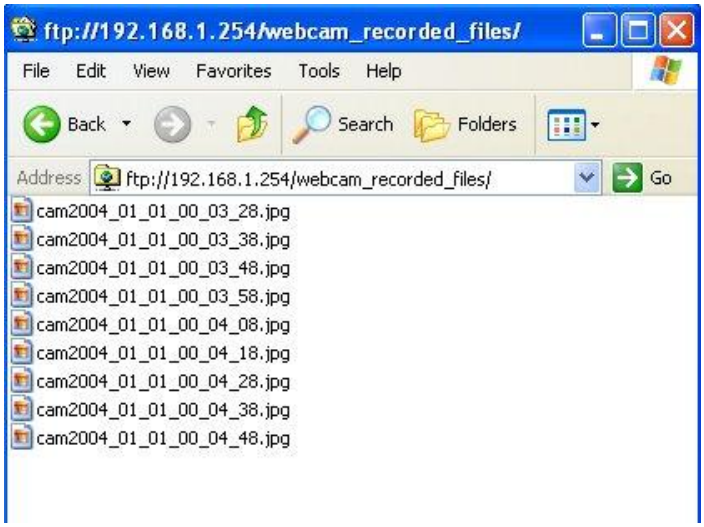
For administrator, you may view all the images from webcam recording, please select **Folder Management** and click on **Disk Explorer** to view entire folder inside the disk including webcam record files.



After click on **Disk Explorer**, you will see the folder screen appear including all the folders inside MT4205. (Below is the example.)

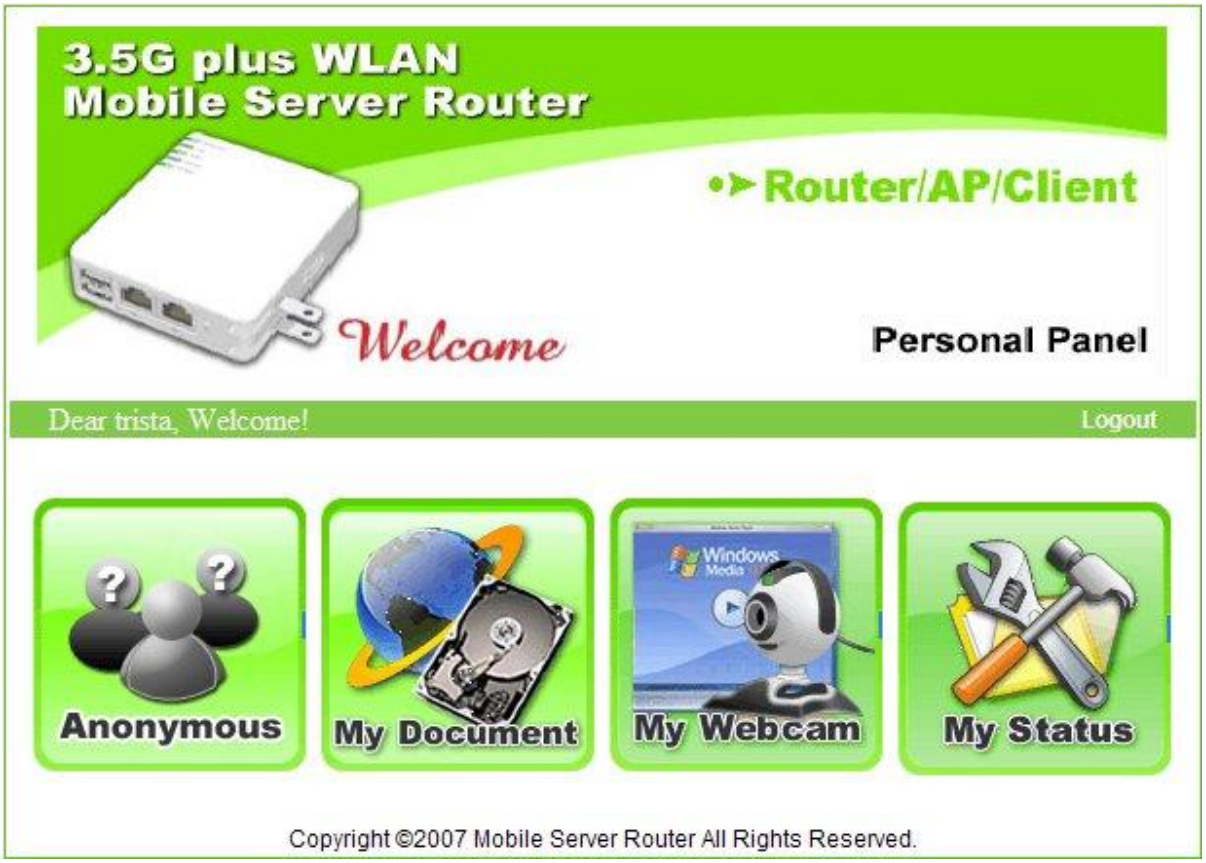


For getting the images from web camera or any files inside router, you may copy the files into your own HDDs directly. In addition, all image files are stored in **webcam_recorded_files** folder, click to examine the content inside.

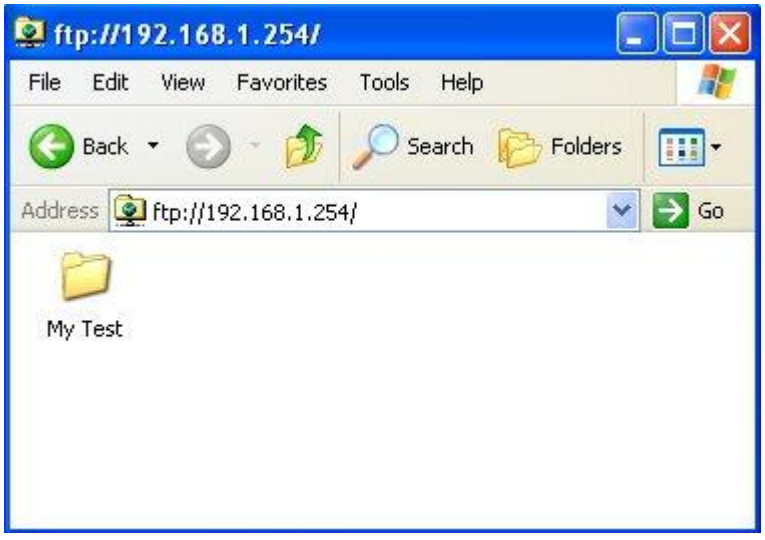


4.4.3.3.2.2 Personal Application

All the users under administrator's setting can view webcam real-time images from **My Webcam**. Please log in with your own personal account. For viewing your own folder, please click ***"My Document"***.



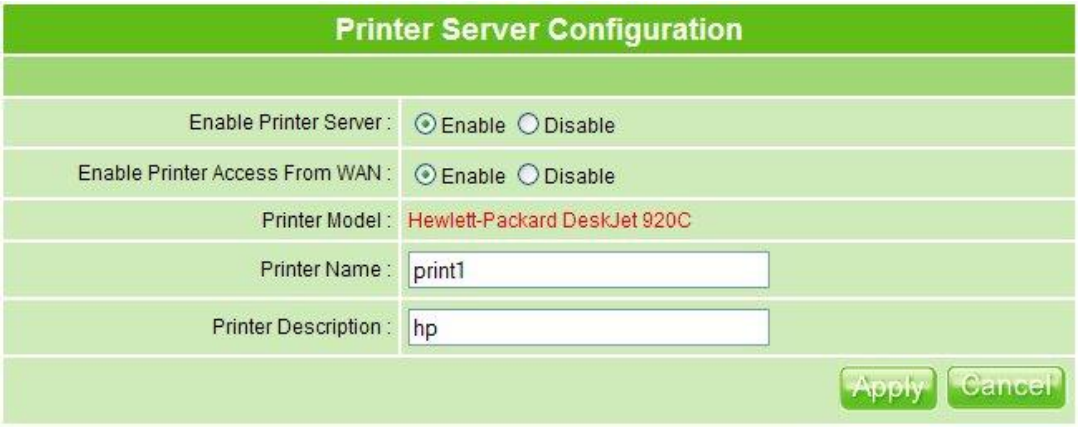
After click on ***My Document***, you will see folder screen appear as the example below. You can store files here, too.



Notice: If you can't open the folder, please check with administrator to set up your FTP access right.

4.4.4 Printer Server

Follow the illustrations below to set up your MT4205 and USB-connected printer.


Printer Server Configuration
Enable Printer Server : Enable Disable
Enable Printer Access From WAN : Enable Disable
Printer Model : Hewlett-Packard DeskJet 920C
Printer Name : print1
Printer Description : hp
Apply Cancel

1. **Enable Printer Server:** Check enable for applying printer server.
2. **Enable Printer Access From WAN:** Allow printer can access from WAN side by checking enable for this item.
3. **Printer Model:** The printer model shows up while plugging a USB printer.
4. **Printer Name:** Enter the preferred name of your printer.
5. **Printer Description:** Enter the description of printer as your demand.
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.

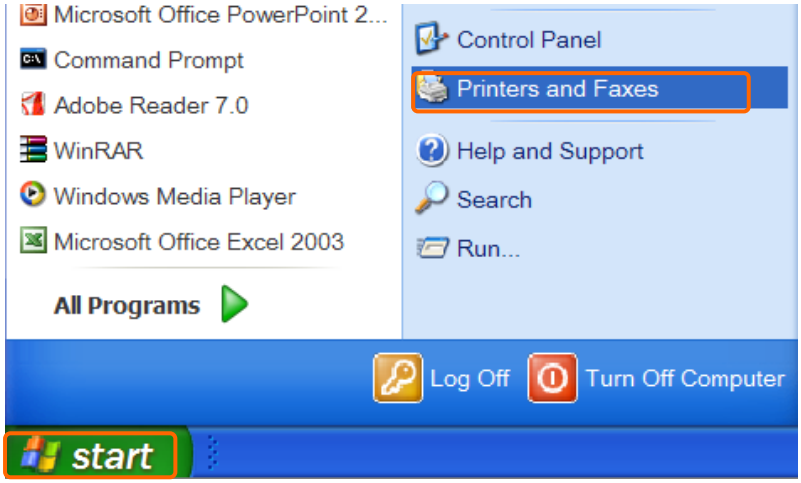
Besides finishing the above, the printer setting on PC also needs to be set as follows.

4.4.4.1 Printer Setting on PC

After enabling Printer Server in Quick Setup and Printer Server Configuration, please follow the steps to set the detail **LPR** settings on your PC. (The example below is for Windows XP platform.)

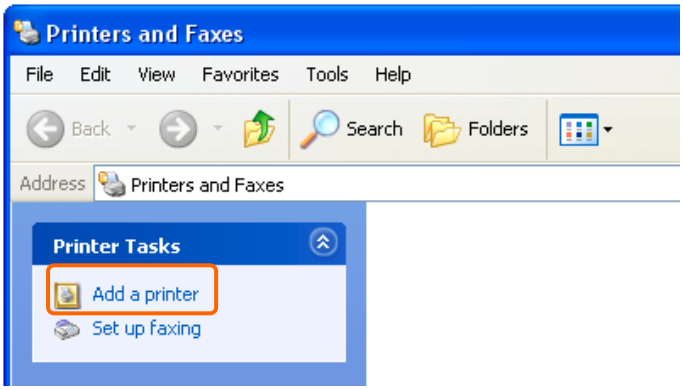
【Step 1】

After setting USB printer on MT4205's setup page, please go to **Start > Printers and Faxes** to add a printer.



【Step 2】

Click on **Add a printer** item.



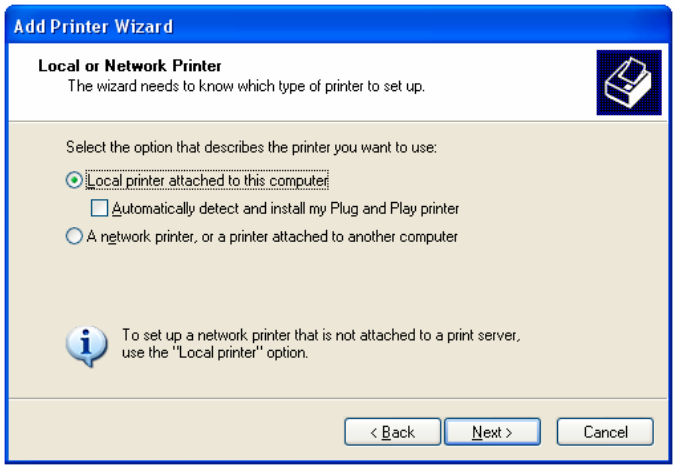
【Step 3】

Click on **Next** button.

Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

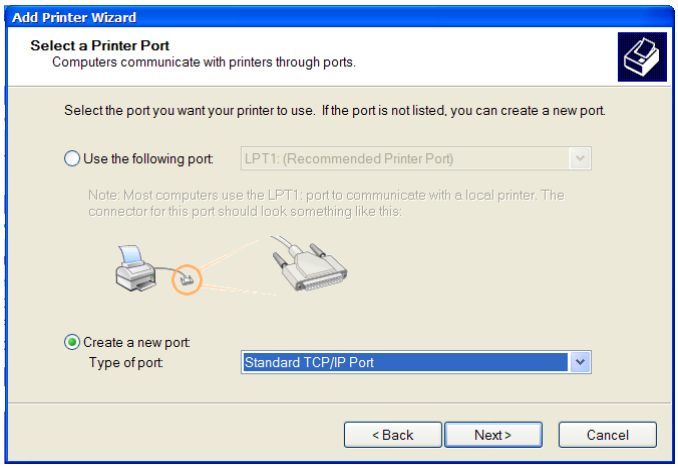
【Step 4】

Select **Local printer attached to this computer**, and click **Next**.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

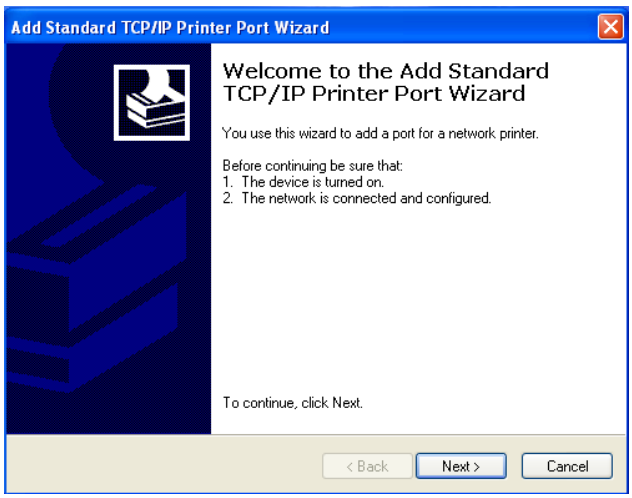
【Step 5】

Select **Create a new port** and choose **Standard TCP/IP Port** from drop-down list, then click **Next**.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Standard TCP/IP Port
< Back
Next >
Cancel

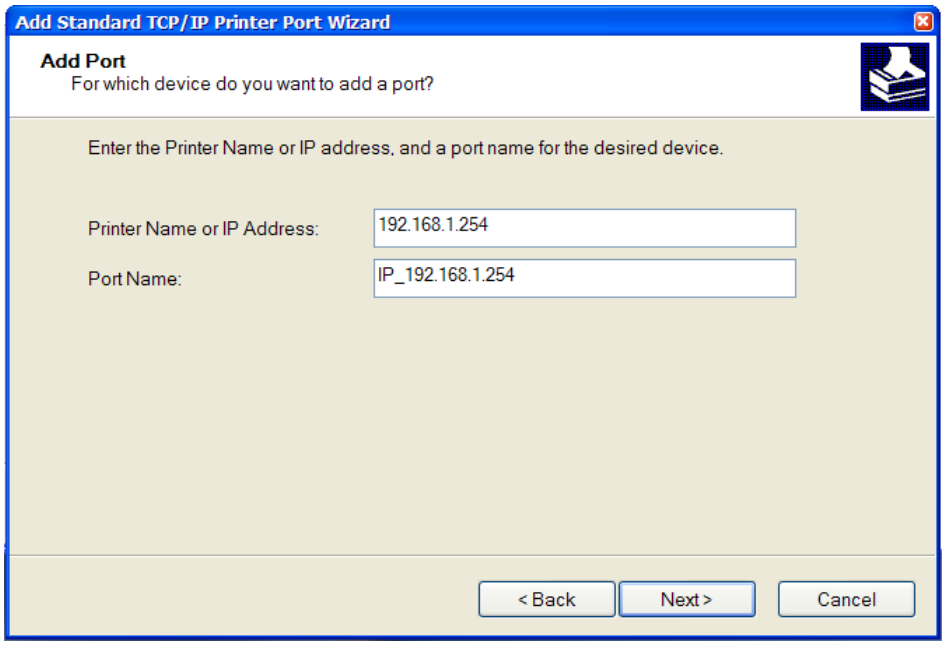
【Step 6】

Click **Next**.


Add Standard TCP/IP Printer Port Wizard
Welcome to the Add Standard TCP/IP Printer Port Wizard
You use this wizard to add a port for a network printer.
Before continuing be sure that:
1. The device is turned on.
2. The network is connected and configured.
To continue, click Next.
< Back
Next >
Cancel

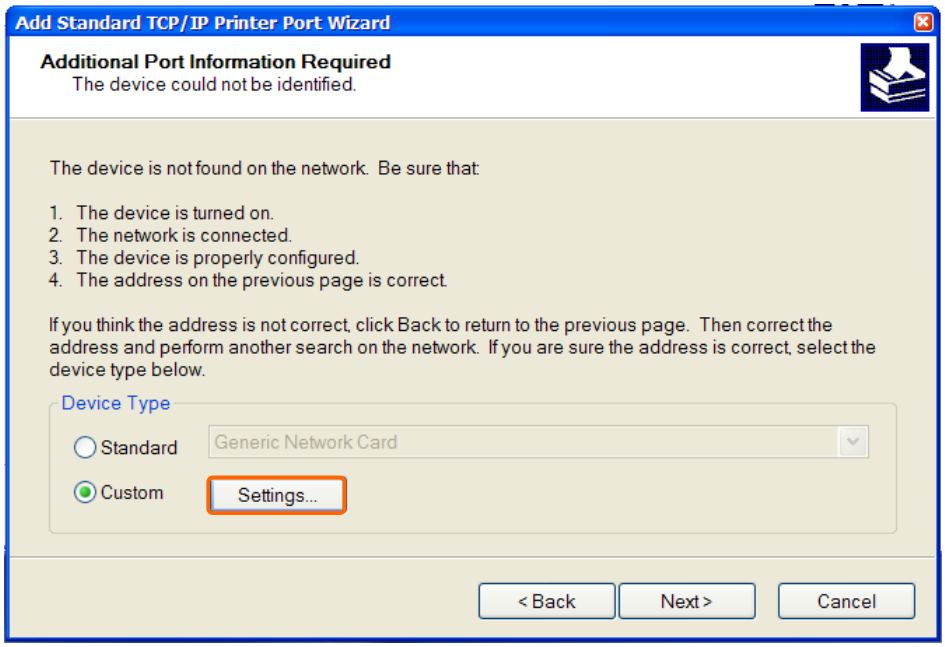
【Step 7】

Put in MT4205's address: **192.168.1.254** and click **Next**.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.254
Port Name:
IP_192.168.1.254
< Back
Next >
Cancel

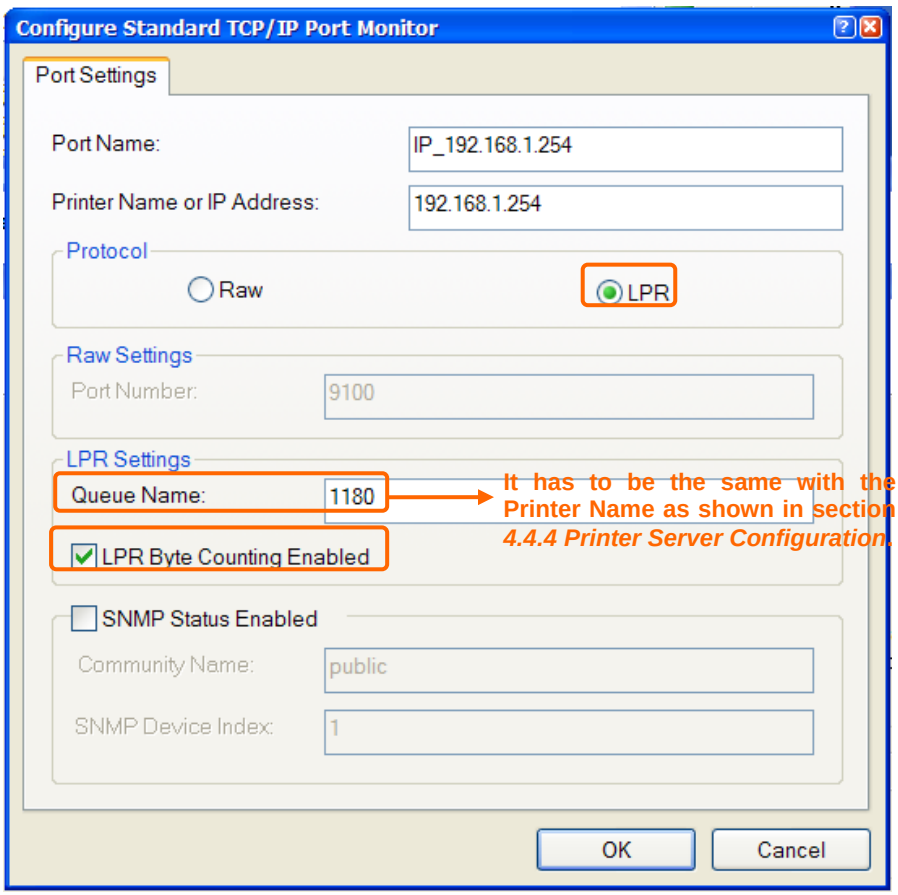
【Step 8】

Select **Custom** and click on **Settings…** button to set the detail setting.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The device is not found on the network. Be sure that:
1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.
If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

【Step 9】

Select **LPR** and give it the same **Queue Name** as USB Printer Name has shown, and mark **LPR Byte Counting Enabled**. Finally, click on **Next** button.

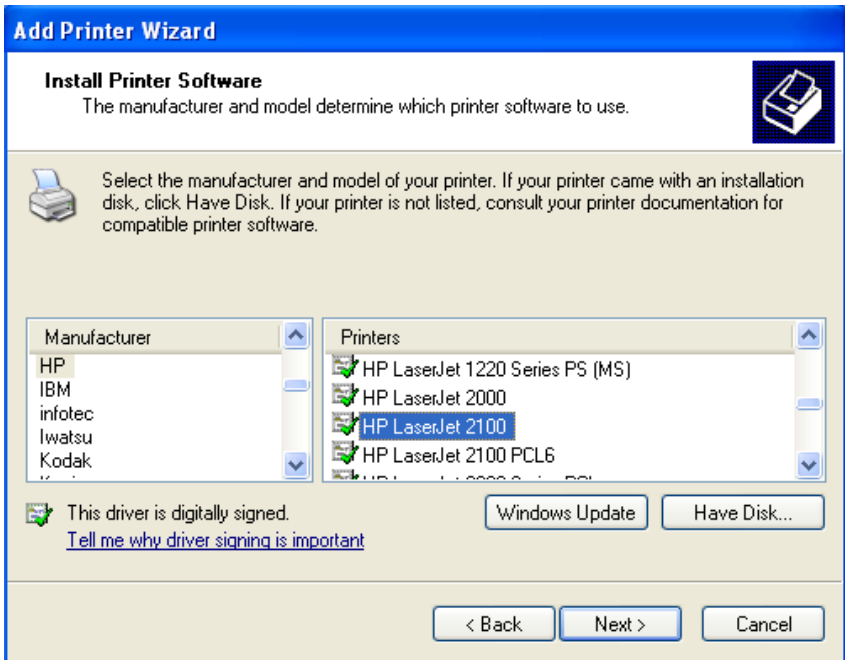


【Step 10】

Click **Finish** on the next screen after the aforesaid settings, you have to install the printer driver as well.

【Step 11】

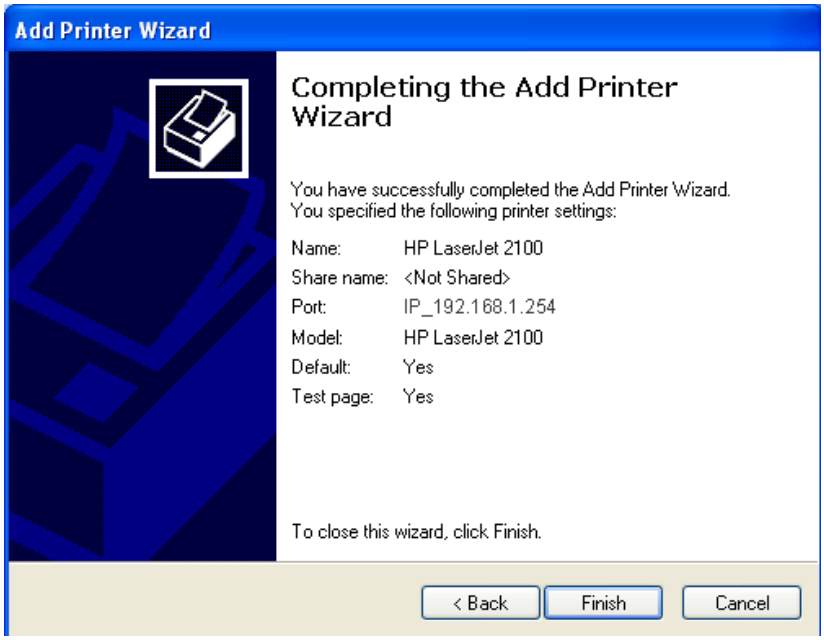
Select the **Manufacturer** and **Printers**. If your printer is not listed in the table, please insert its driver CD and then click on **Have Disk…** button for installation. Or click on **Next** button to finish the setting.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
HP
IBM
infotec
Iwatsu
Kodak
Printers
HP LaserJet 1220 Series PS (MS)
HP LaserJet 2000
HP LaserJet 2100
HP LaserJet 2100 PCL6
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

You can name your printer, set it as default printer and share your printer as the next screen shown, the **Printer Server** setting is getting completed.

【Step 12】

It shows you the printer settings that you have specified, and then click **Finish**.



4.5 System Management

MT4205 provides system management including password changing, firmware upgrade, time setting, user's account setting and other detail settings. Following is detail explanation for each.

4.5.1 Reboot

If you had entered the wrong configuration while setting up your router or other utilities, you can always reboot your MT4205 by this setting.

It's necessary to reboot the router if it begins working improperly, please click on Reboot button to reboot the router.

Reboot
Sometimes it may be necessary to reboot the router if it begins working improperly. Rebooting the router will not delete any of your configuration settings. Click reboot button to reboot the router.
Reboot

4.5.2 Change Password

At this section, the administrator can change the system password. Only the password can be changed, the user name for administrator is **admin** and can't be changed.

Change Password
The router ships with no password.You may set a password or change your current password in this page.
Login : admin
Old Password :
New Password :
New Password (Confirm) :
Apply
Cancel

1. **Old Password:** Enter the original password you set.
2. **New Password:** Enter the new password you want to change.
3. **New Password (Confirm):** Enter the new password again for confirming.
4. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.

4.5.3 Firmware Upgrade

There is certain risk while upgrading firmware. Upgrading firmware is not recommended unless the significant faulty is found. You can upgrade the firmware of MT4205 on this page. Make sure the firmware you want to use is on the local hard drive of the computer. Click **Firmware Upgrade** to proceed.

Firmware Upgrade
From time to time, the product may release new versions of the router's firmware. You can click Check Firmware button to check and download up-to-date firmware and click Browser button to locate the file from your local harddisk.
Current Firmware Version : Ver2.0.2
Firmware Date : 2007/10/02 12:04:40
Update Firmware :
Browse...
OK
Cancel

1. **Update Firmware:** Click **Browse** to search your local hard drive and locate the firmware used for update.
2. **OK & Cancel**
   Click **OK** to confirm or **Cancel** to clear the setting on this page.

Notice: Before using a whole new disk, please format it on your PC first, so that it can be formatted on MT4205.

4.5.4 Profile Save

To back up the current configuration setting or load the backup data, also you can restore MT4205 to default setting by this function.

Profiles Save
In this page, you can save your current configuration, restore a previously saved configuration, or restore all of the settings in the router to the factory (default) settings.
Save Settings To PC :
Save
Load Settings From PC :
Browse...
Load
Restore To Factory Default Settings :
Restore
Apply

1. **Save Settings To PC:** Click on **Save** button for saving the configuration setting into assigned location.
2. **Load Settings From PC:** Click on "**Browse…**" button for searching the saving configuration from hard drive, and then click on **Load** button to load all the settings into the router.
3. **Restore To Factory Default Settings:** After you have tried other methods for troubleshooting your network, you may choose to restore MT4205 to the factory default settings.
4. **Apply**
   Click on **Apply** button to save the settings.

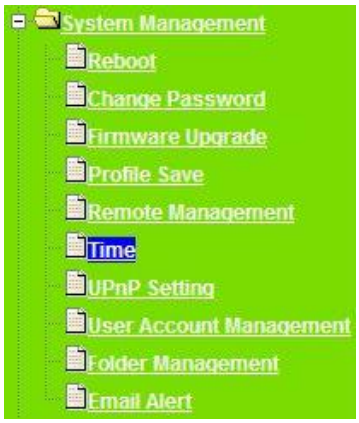
4.5.5 Remote Management

Remote Management allows MT4205 to be configured from the Internet by a web browser. In general, only a member of your network can browse the built-in web pages to perform "Administrator" tasks. This feature enables you to perform the tasks from the remote (Internet) host.

1. **HTTP Connection Port:** The port number used to access the router.
2. **Remote Management:** You can allow any Internet IP address to access the router, or set up deny rule according to IP setting.
3. **IP Address:** Internet IP address of the computer that has access to the router.
4. **Description:** Enter the description for the remote configuration.
5. **Add, Apply & Cancel**
   Click **Add** to add the remote list, and click **Apply** to activate, or **Cancel** to clear the settings on this page.
6. **Remote Management IP List**
   Display, edit or delete IDs, description and IP address of allowed remote list.

4.5.6 Time

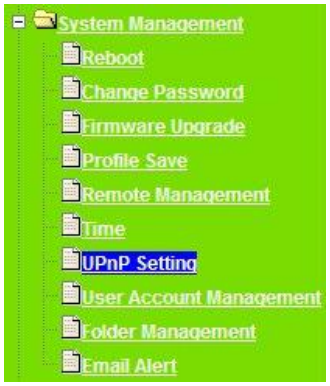
The system automatically shows the local time and time on PC. You can set the date and time manually so that it can be adjusted on router accordingly.

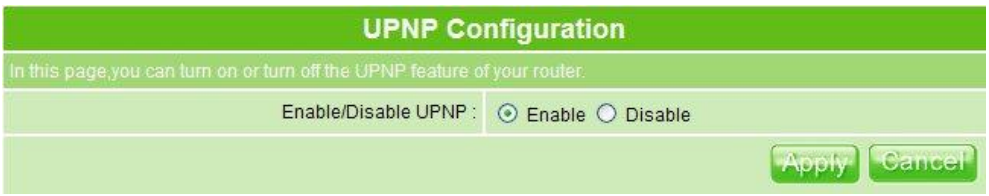


1. **Local Time:** The default time within.
2. **Set the Time:** Select this item to set up time by manual, select the date and time from each drop-down list.
3. **Set Time:** Click **Set Time** to set local PC time on router.
4. **Apply & Cancel**
   Click **Apply** to activate or **Cancel** to clear the settings.

4.5.7 UPnP Setting

UPnP (Univsersal Plug and Play) allows all devices on the network to connect by node-to-node via TCP/IP protocol.

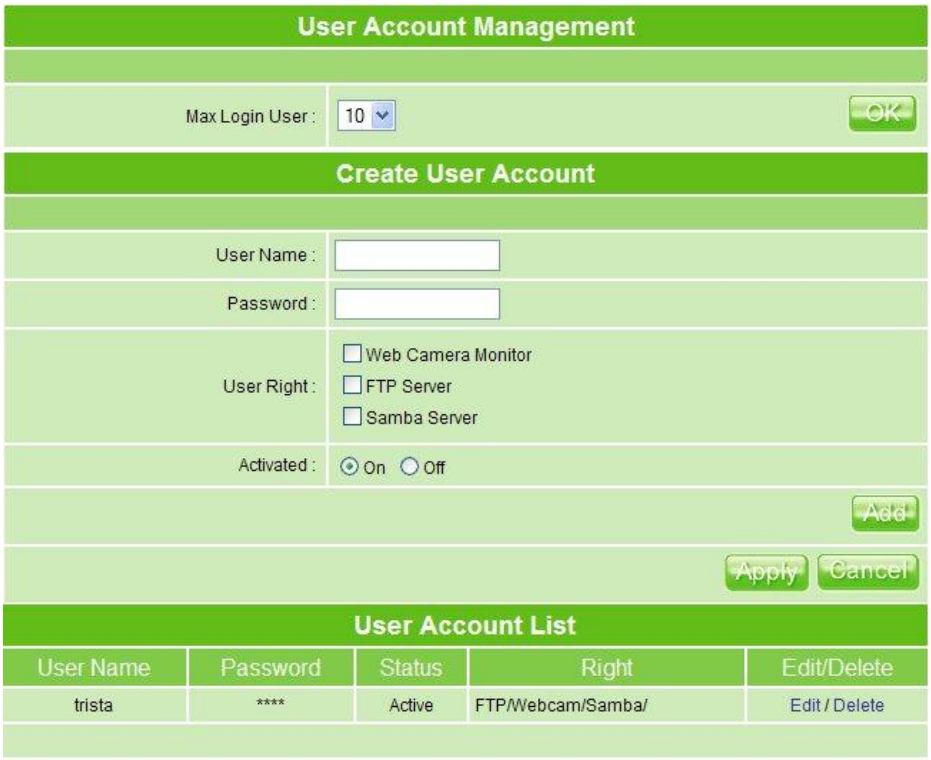




1. **Enable/Disable UPnP:** Select to enable or disable this service.
2. **Apply, Cancel**
   Click **Apply** to activate this function or **Cancel** to clear the setting.

4.5.8 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and allowed to edit or delete by clicking the linking text.

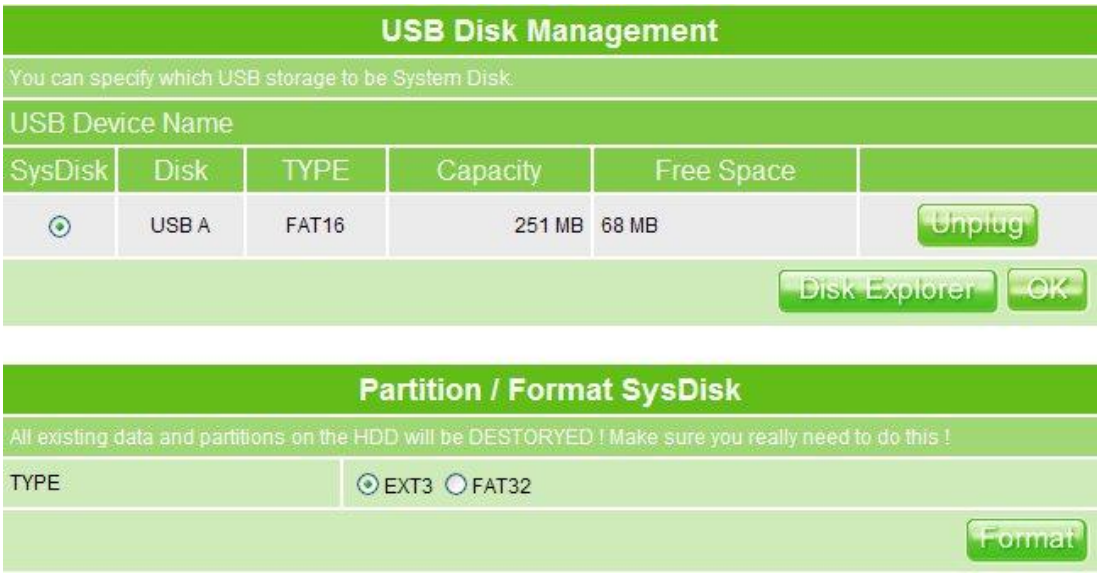


1. **Max Login User:** Set up the maximum users to log in at the same time, select the number from drop-down list. If you want to change the maximum login users only without changing user's information, please click on **OK** button after select login user's number.
2. **User Name:** Create the user name in this blank.
3. **Password:** Set up the user's password.
4. **User Right:** Check to allow the user accessing Samba folder, monitoring from webcam or using FTP server.
5. **Activated:** Click **On** to allow the user's right to be applied immediately.
6. **Add, Apply & Cancel**
   After finishing the above, click **Add** button to create user account. Click on **Apply** button to add set-user into the account list or **Cancel** button to clear the settings on this page.
7. **User Account List**
   The list shows all users' names, passwords, status and rights.

4.5.9 Folder Management

Easy to check all the USB storage devices connected to MT4205, view the entire data folder inside each storage devices, and you can manage the disk formatting / partition via clicking the button on this page.

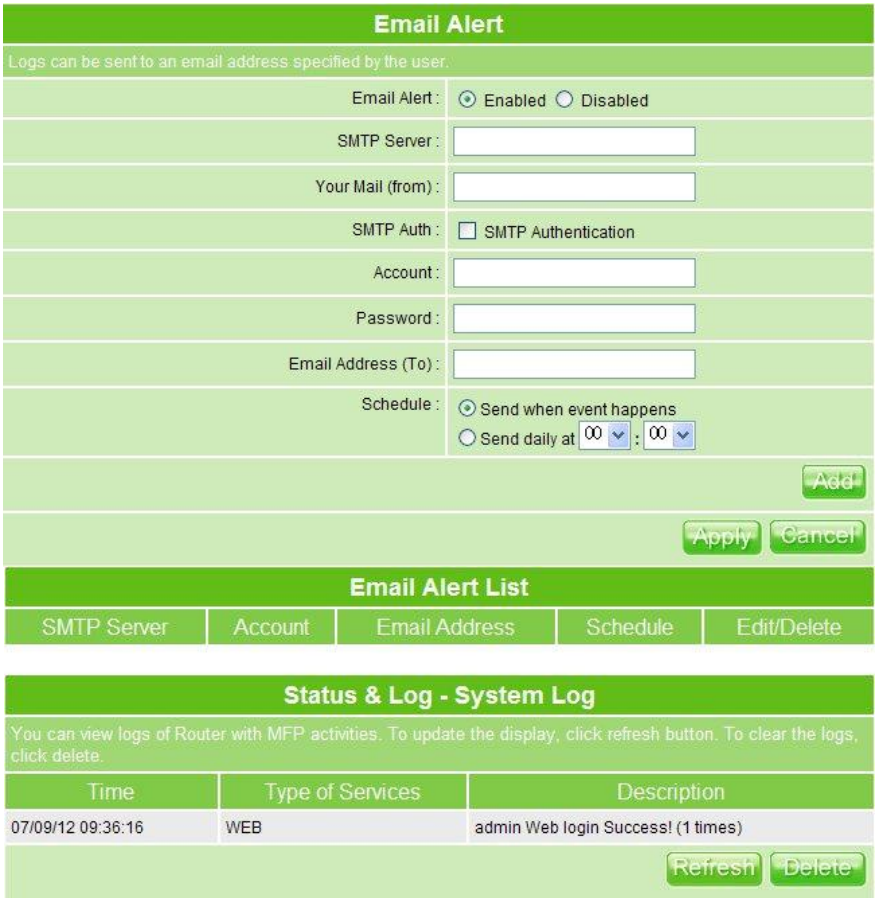
1. Select the USB Disk and click **OK** for refreshing all disks before you perform disk partition, and the **Unplug** button appears afterwards.
2. To partition/format the disk, please select the disk and click on **Format** button.
3. Moreover, if you want to view the data inside the disk, please go to ***4.2.7 FTP Sever Setup*** to enable FTP server and then click on **Disk Explorer** to view all the folders inside the device.



Notice: You have to click on **Unplug** button before removing the USB device from MT4205.

4.5.10 Email Alert

To monitor router activity, you can run on a local PC or a remote one elsewhere on the Internet. And MT4205 provides the email alert facility so that the log messages can be packed as an e-mail for someone who wants to receive these messages by scheduled time. In the following, here explains how to set up the email alert function.



1. **Email Alert:** Check the enable box to activate the email alert service.
2. **SMTP Server:** Specify an IP address of the SMTP server which can send mails from your MT4205 to the recipients' mailboxes directly.
3. **Your Mail (from):** Enter the email address indicated the sending location.
4. **SMTP Auth:** If the email alert needs to be sent via SMTP authentication, please check this item, and then enter the required account and password.
5. **Account:** Enter the email account from which you want to send the alert.
6. **Password:** Enter the email account password to validate.

7. **Email Address (To):** Enter the email address where to receive the alert.
8. **Schedule:** Arrange to send the alert when event happens or by regular time.
9. **Add, Apply & Cancel**
   After finishing the above, click **Add** to set up the rule into email alert list. Then, click **Apply** to save or **Cancel** to clear the settings on this page.
10. **Email Alert List**
    Display, edit or delete a list of relative information in regarding to the above mentioned.
11. **Refresh & Delete**
    Click on **Refresh** to renew the login data and other system status information, or click on **Delete** to clear these logs.

4.6 Log & Status

MT4205 provides the log list, connection status and user's account.

4.6.1 Network Configuration

Network Configuration shows all connection status of LAN, Wireless and plugged USB devices.

Each block shows configuration status, you may click **Refresh** to update the screen list.

Network Configuration	
System Bootup Time	
Bootup Time:	44:18
LAN	
MAC Address:	00:0e:68:00:39:3d
DHCP Server:	192.168.1.1
Receive bytes:	1390897
Receive packets:	8358
Transmit bytes:	11467730
Transmit packets:	10906

Wireless	
Status:	AP Mode
MAC Address:	00:d0:41:ab:f2:57
Mode:	MIX
SSID:	Wireless_Mobile_Router
TxRate:	Auto B/G
Channel:	6
Encrypt Type:	None
Receive bytes:	0
Receive packets:	0
Transmit bytes:	0
Transmit packets:	0

USB				
USB Port	USB Type	Name	Model	Status

Refresh

4.6.2 User Account List

This section shows all users' information.

Check the user name, status and opened directory/file on screen.

User Account List		
User Name	Status	Opened Directory / File
trista	Online	/mnt/ftp/trista/my

4.6.3 Event Log

MT4205 provides system logs for review.

The system status log shows logging time, type and detail information as below. Click **Refresh** to update.

4.7 Logout

Click **Logout** on the bottom menu to exit and go back to GUI login home page.

4.8 Personal Configuration

Open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://192.168.1.254 (Default Gateway) into browser's blank field.

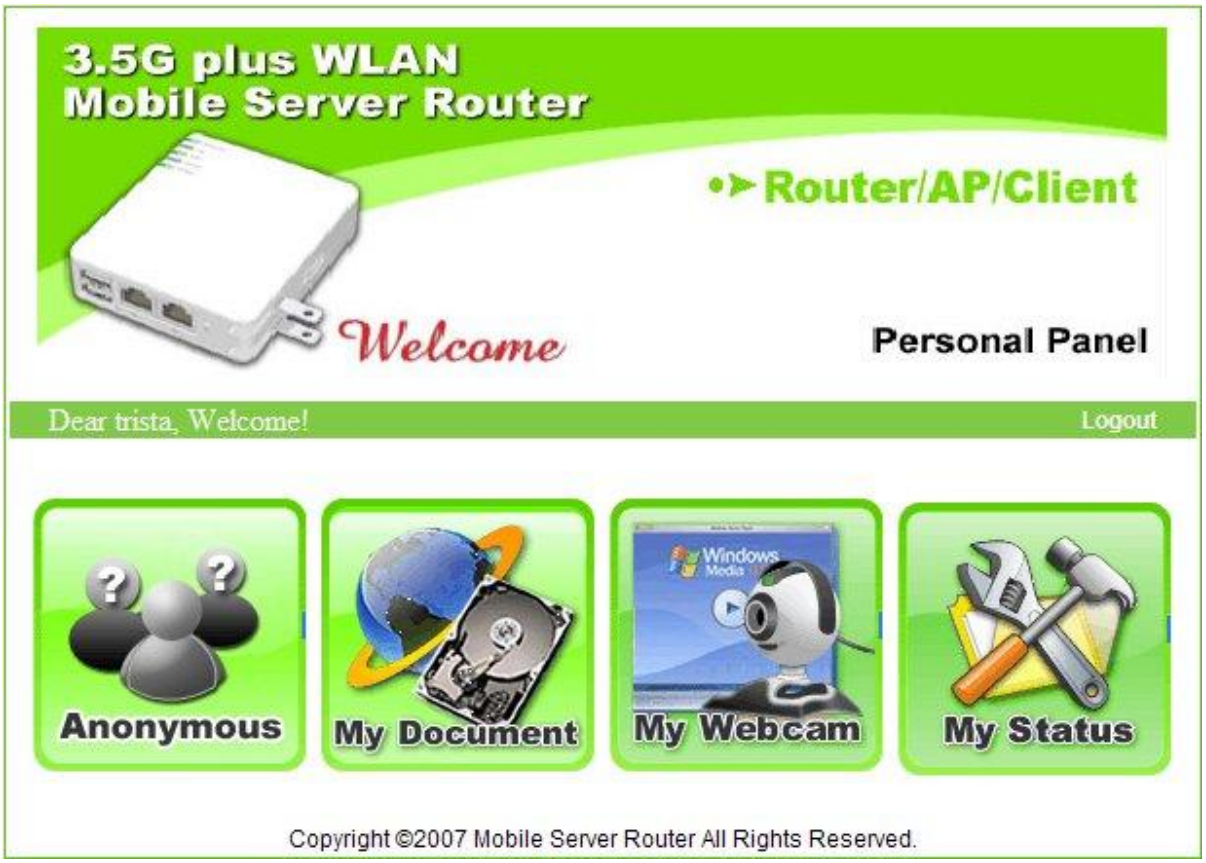
Notice: If the homepage doesn't appear, please check whether the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do this, please refer to ***1.5 Get your IP Automatically & Manually***.

Homepage

Click **Personal Panel** and log in with your own user account. (If you can't access your personal account, please check with administrator for validation.)

Personal Panel

Screen below shows every login user's access rights, including **Anonymous**, **My Document**, **My Webcam** and **My Status**.



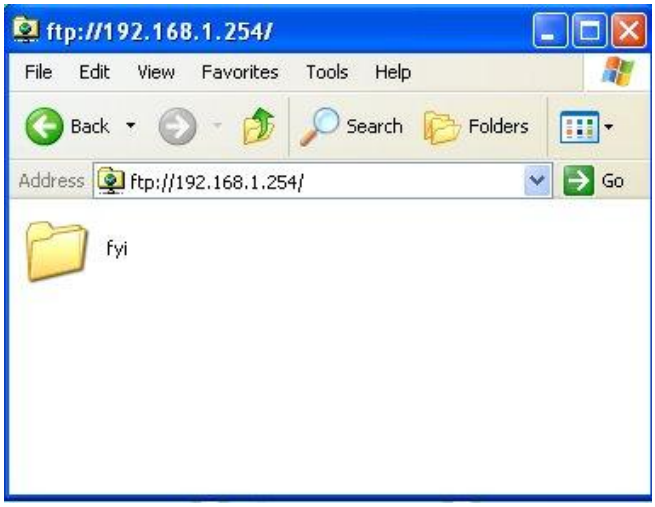
MT4205 provides personal control panel for every login user's entrance to each application screen, please click on each icon for application. The icons appear in gray color can't be clicked if the user doesn't have the right to use that function; even though there is none to be set, the user can still apply **My Status**.

Notice: The available access rights are depended on administrator's authorization in ***4.5.8 User Account Management***.

4.8.1 Anonymous

"**Anonymous**" shows all the files stored in USB HDD by administrator and allows any login user to check the folder and copy files to the HD via Internet. The following is the detail description.

Click **Anonymous** to access the shared folder created by administrator and freely download those files underneath to personal hard drives.

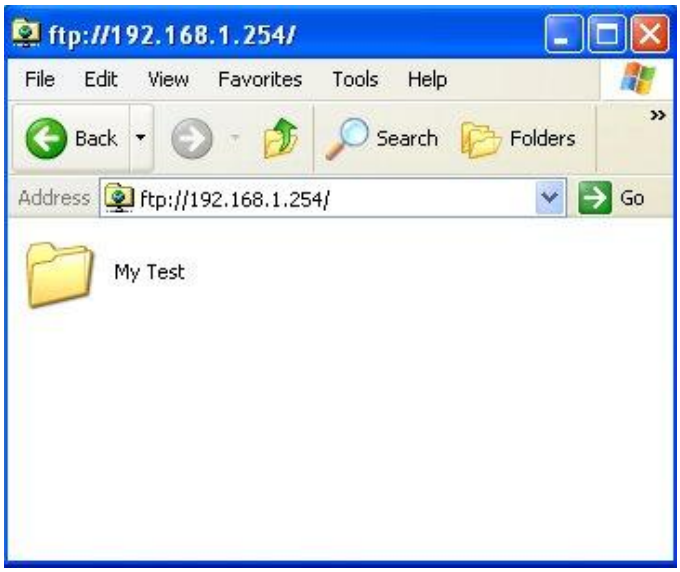


Notice: If you can't access **Anonymous** folder, please check with administrator to enable your FTP server rights. Files under this directory are only for downloading, but not for uploading, deleting, or edting.

4.8.2 My Document

"**My Document**" shows all the files in USB HDD under each user's account. Login user can also create the folder or copy files into the HD directly via Internet. The illustrated below is the detail description of folder inside.

Click **My Document** and opens another web page to show all the files in your own folder.



Notice: If you can't access this folder, please check with administrator to enable your FTP server rights.

4.8.3 My Webcam

"**My Webcam**" application allows you to view the real time image when the web camera is on.

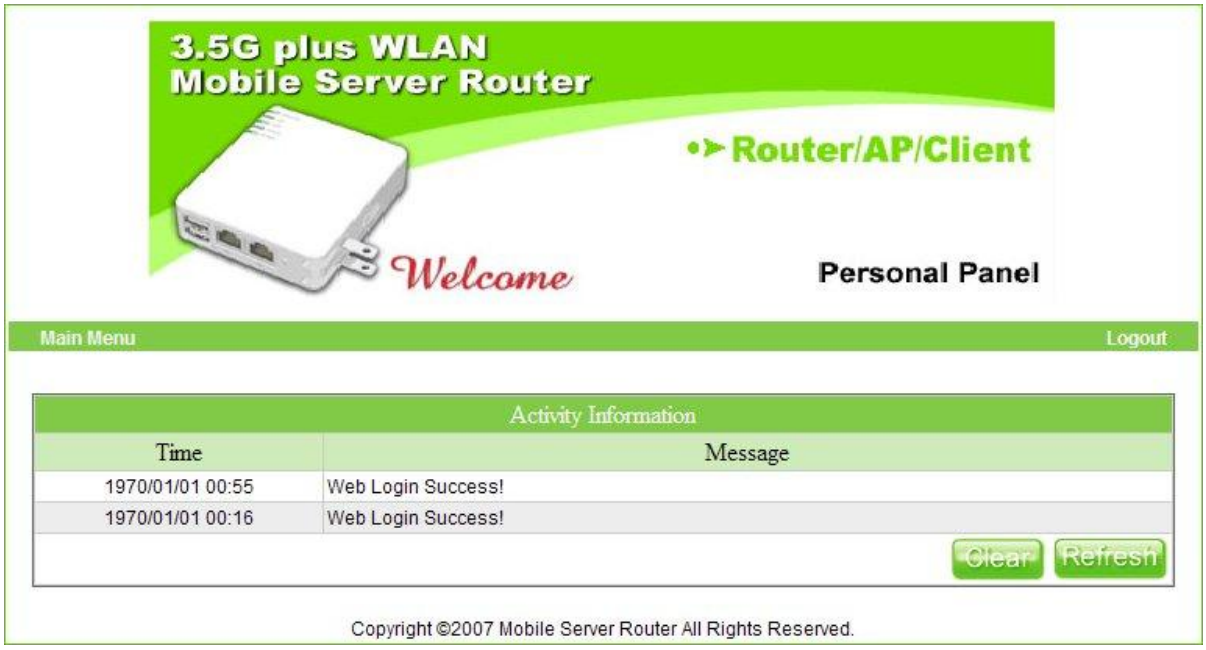
Click **My Webcam**, and the system pops up a new window to display real time image as the example below shows.

Notice: If the image from webcam can't be viewed, it may be caused by Internet security setting and needs to be corrected or installed with the Java program.

4.8.4 My Status

"**My Status**" shows all the login information for your personal account.

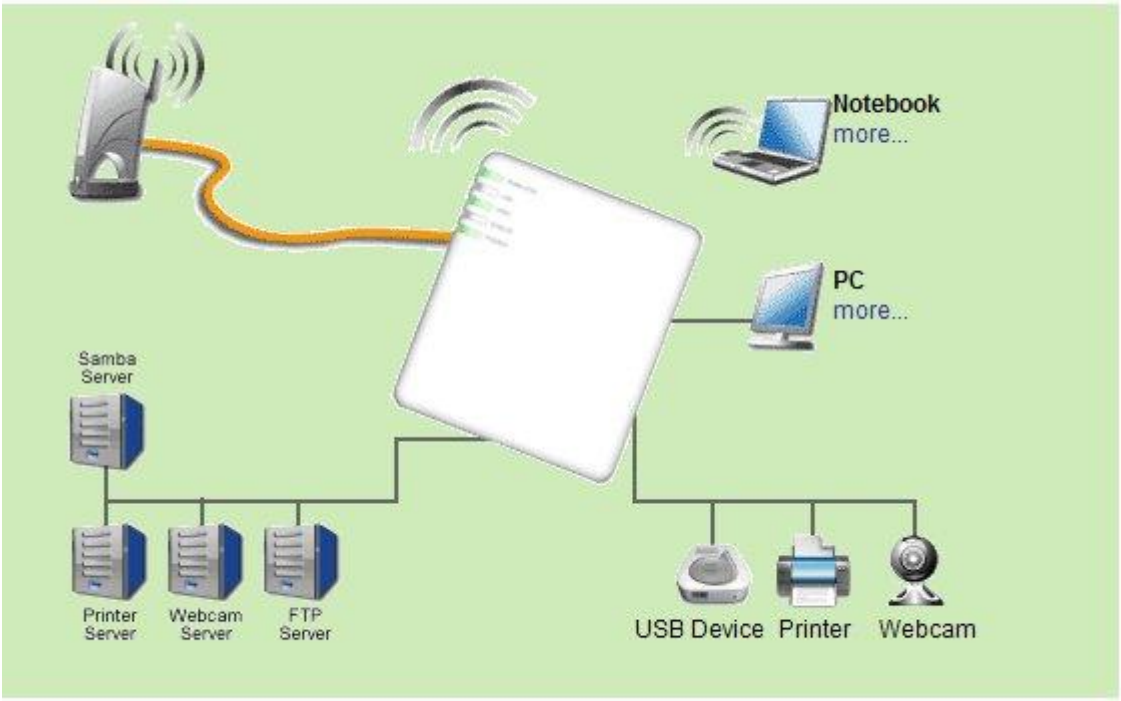
Click **Main Menu** on the left to go back main control panel and other applications.



Notice: All above usage information is based on administrator's setup.

4.9 Site Map

MT4205 provides site map clicking for each icon to carry out the easy setup from the home page.



Chapter 5 Client Mode

5.1 Administrator Quick Setup

Make sure to switch the mode into Client Mode, then open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://10.64.64.64 (Default Gateway) into browser's blank field.

Notice: If the homepage doesn't appear, please check whether the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do this, please refer to section ***1.5 Get your IP Automatically & Manually***.

Homepage

Please click **Administrator** to log in setup menu.

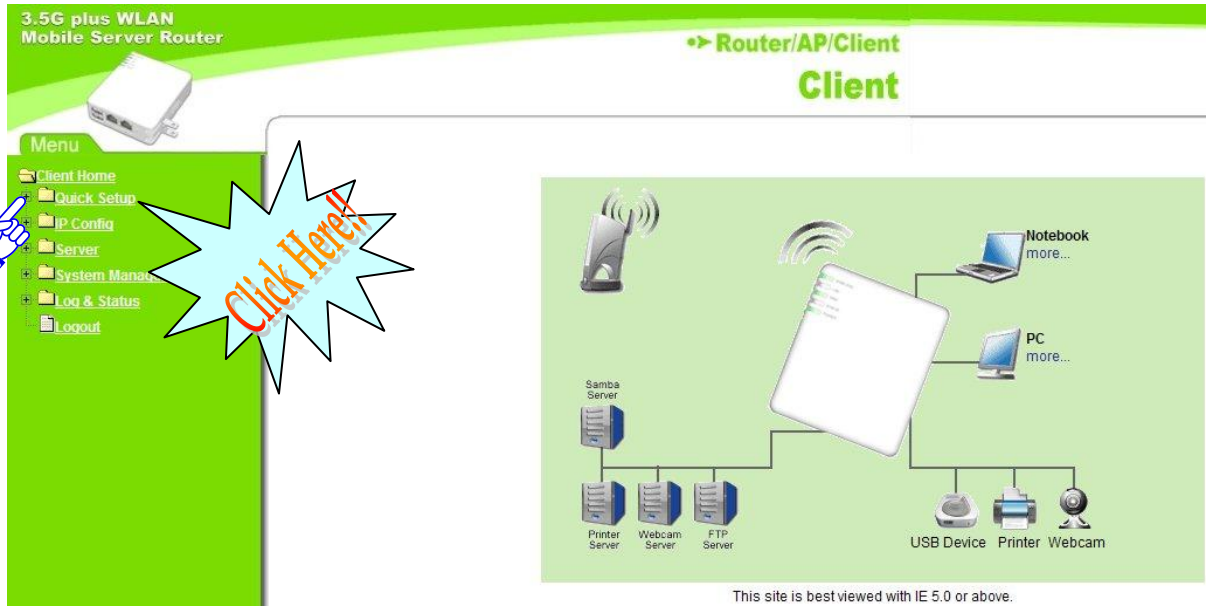
User Name and Password

The default values for User Name and Password are **admin** (all in lowercase letters). Click **Login** to enter.

Notice: Only the password can be changed, please read setup ***5.2.4 Password Setup*** or ***5.5.2 Change Password***. In order to protect your own settings, it's strongly recommended to change the password before you finish the Router Basic Setup.

5.2 Quick Setup

Typical Configuration Manager Page consists of two separate frames. The left frame contains all the means available for device configuration. Menus are indicated by file icons, and related menus are grouped into categories, such as LAN, WAN and etc., and indicated by folder icon, depending on whether the group of menus are expanded or not. You can click on any of these to display a specific configuration page. And the right frame is designed as a site map.



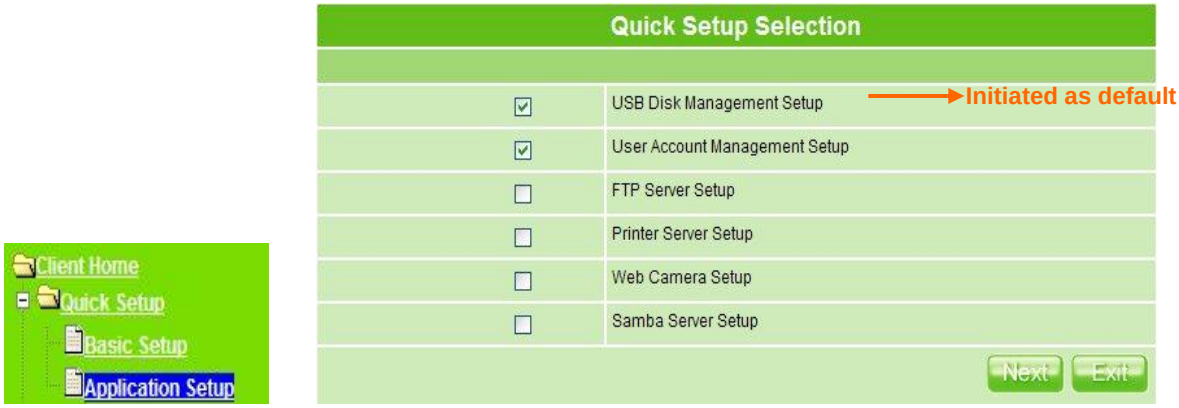
The above diagram shows all PCs and devices connected to your MT4205 and their status. Click **Quick Setup** on the left of the main menu. Then you'll see the full functionality selection screen appears and detailed settings for each item, including "**Basic**" and "**Application**" two parts.

Note: The device models named of USB Device, Webcam and Printer will be shown under the picture of each device if the product supports.

Quick Setup full function table list

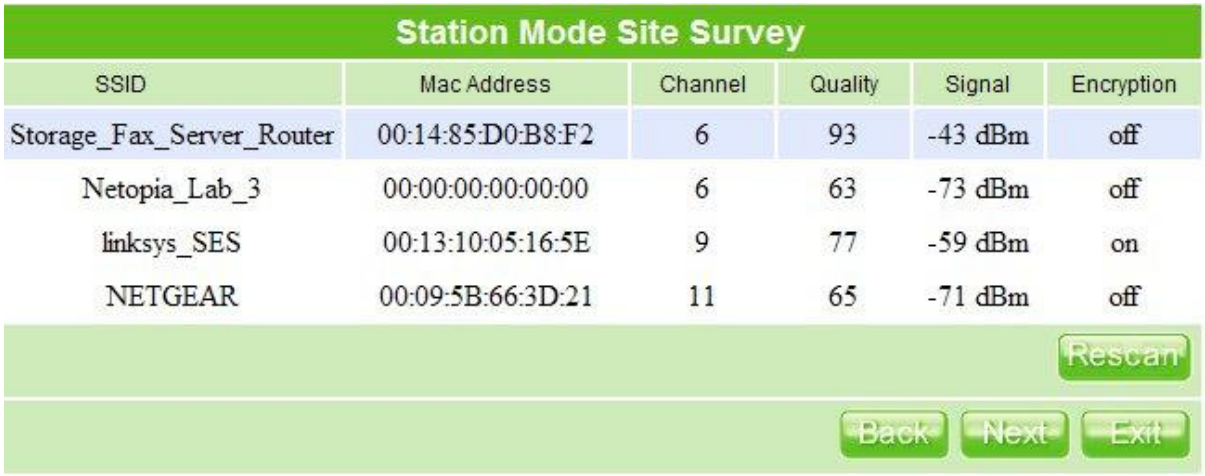
- Click **Basic**, you see 4 major items set in Quick Setup Selection. Please click **Next** to continue.

- Click **Application**, you see 6 major items set here, including USB Disk Management Setup, User Account Management Setup, FTP Server Setup, Printer Server Setup, Web Camera Setup and Samba Server Setup. For the checked ones are recommended, all can be selected upon your demands.



5.2.1 Site Survey Setup

Search for available wireless APs to access Internet. Click **Rescan** to show the information.



Select the preferred AP for connection, for example, Storage_Fax_Server_Router as the above, and click **Next** to continue.

5.2.2 Wireless Setup

Display connected wireless AP information.

After setup completed, click **Next**.

5.2.3 Time Server Setup

MT4205 shows local date and time; however, the time still can be changed manually by selecting from the drop-down list, which won't effect the original time setting on your PC.

Quick Setup - Time Server
Please set your time and time zone in this page.
Local Time : 1970/01/01 Thu 00:59:04
Setup Time Use NTP
Default NTP Server : time.stdtime.gov.tw (optional)
Time Zone : (GMT+08:00) Beijing, Hong Kong, Singapore, Taipei
Daylight saving time : Disable
User Setup
Set the Time : Year : 2007 Month : Nov Day : 06
Hour : 17 Minute : 13 Second : 13
Back Next Exit

After completed, click **Next** to proceed.

5.2.4 Password Setup

Here suggests changing the password for logging into the configuration manager in terms of security reason.

Quick Setup - Change Password
The router ships with no password.You may set a password or change your current password in this page.
Login : admin
Old Password :
New Password :
New Password (Confirm) :
The password may consist of A-Z, a-z, 0-9, underscores, and a single dot (.)
Back Next Exit

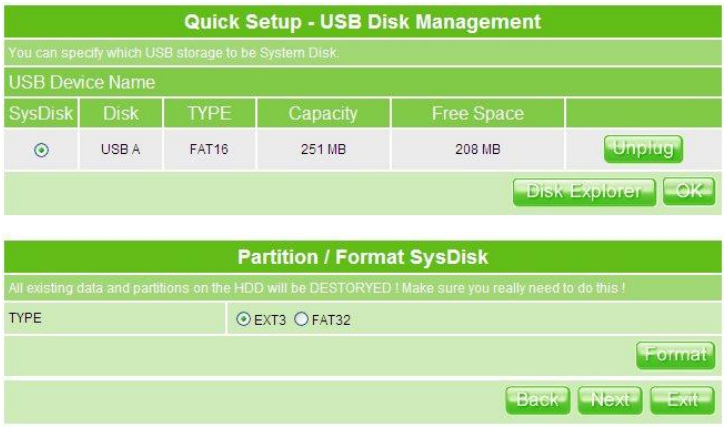
For changing password, please fills the password information into above blanks, and then click **Next**.

Notice 1: Only the password can be changed, the user name for administrator is "**admin**" and not to be changed.

Notice 2: If you forget administrator's password, please reset MT4205 to default setting by pushing the "**Reset**" button on the rear panel for 5 seconds. And the password will return to "**admin**".

5.2.5 USB Disk Management Setup

Easy to check all the USB storage devices connected to your MT4205, view the entire data folder inside each storage device, and you can manage the disk formatting/partitioning via click on the button of this page.

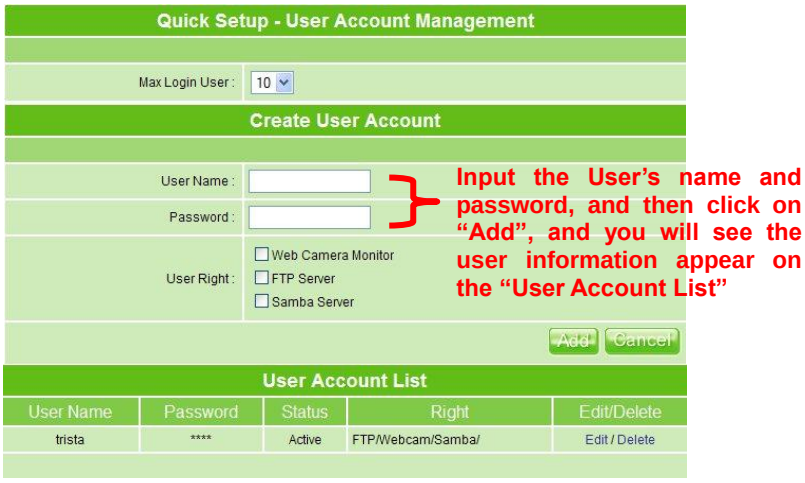


Select the USB Disk and click **OK** for refreshing all disks before you do disk partition, and the **Unplug** button will appear. To partition/format the disk, please select the disk and click **Format**. Moreover, if you want to view the data inside the disk, please go to ***5.2.7 FTP Sever Setup*** to enable FTP server and then click **Disk Explorer** to view all folders inside the device.

Notice: You have to click on **Unplug** button before removing the USB devices from MT4205.

5.2.6 User Account Management Setup

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and can be edited or deleted by clicking the meaning text.



Set each user's right and space arrangement, and then click on **Add** button for saving user's account. Click on **Next** button after finished.

5.2.7 FTP Server Setup

MT4205 can be the FTP Server providing users to transmit files, also for the guest to download the files from assigned website. Moreover, by connecting USB HDD, USB Flash to the router, user can easily set up a FTP Server to share or download files for local or remote users.

Quick Setup - FTP Server
Enable FTP Server : Enable Disable
Enable Anonymous to Login : Enable Disable
Enable FTP Access from WAN : Enable Disable
Back Next Exit
If the USB device isn't enabled first, you can't enable FTP Server. (Not even click on "Enable")

Set the FTP Server and related setting. Disable the function as demand, and click **Next** to continue.

5.2.8 Web Camera Server Setup

If you plan to use MT4205 as a Web Camera site, connect a supported USB Web Camera to the USB port of MT4205. Check both **Enable webcam server** and **Access from WAN** as **Enable** to activate.

Quick Setup - Web Camera Server
Enable webcam server : Enable Disable
Access from WAN : Enable Disable
Image format : 320*240
Back Next Exit

Click on **Next** button to next step.

Notice: Before webcam server enabled, please make sure the webcam has connected to the product; otherwise, the "**Enable**" selection can't be checked.

5.2.9 Printer Server Setup

MT4205 supports LPR-protocol, as well as NetBIOS, and is convenient for sharing printer. In other words, it is an Internet access solution for your LAN/WAN, which provides you the

shared web surfing, and supports USB interface printer. Any users in the same subnet of MT4205 can print their document via the network printers.

Enable the printer and click **Next** to continue.

Notice: After above Printer Server in Quick Setup finished, the related printing settings on MT4205 and PC have to be set up, too. Please refer to ***5.4.4 Printer Server*** to set the details.

5.2.10 Samba Server Setup

MT4205 supports NetBIOS protocol, providing network neighbors to share file folders or printer.

Click on **Next** button to next setup.

5.2.11 Quick Setup Finish

The Quick Setup has been completed successfully when you see this screen.

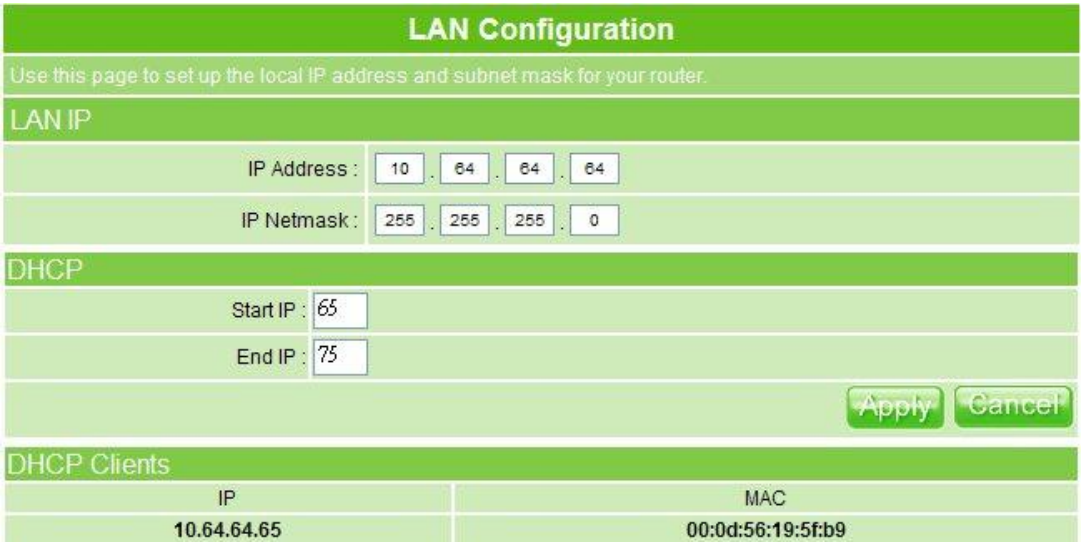
To apply your new settings, please click on **Finish** button to reboot system automatically and go to the product's diagram homepage. You may connect to Internet wirelessly at this moment according to above settings.

5.3 IP Configuration

This function allows you to add routing rules into MT4205, including LAN and Site Survey.

5.3.1 LAN

Use this page to set up the local IP address and subnet mask for your router. Please select **LAN** under the **IP Config** menu and follow the instructions below to enter the LAN setting page to configure the settings you want.



1. **IP Address**
   The default value of LAN IP address is **10.64.64.64** for this router.
2. **IP Netmask**
   Fill in Subnet Mask, normally it is **255.255.255.0**.
3. **Start IP**
   This field specifies the first address in the pool to be assigned by the DHCP server in your local network. The default setting is 65.
4. **End IP**

This field specifies the last address in the pool to be assigned by the DHCP server in your local network. The default setting is 75.

5. **DHCP Clients List**

   The list shows all clients' IP and MAC addresses.

5.3.2 Site Survey

Click **Site Survey** under **IP Config** directory.

1. **Link Mode**

   Select **Infrastructure/Ad_hoc** to enable wireless.

2. **RTS Threshold**

   This value should remain at its default setting of 2347. If you encounter inconsistent data flow, only minor modifications of the value range between 256 and 2347 are recommended

3. **Frag Threshold**

   To identify the maximum length of packet, the overflow packet length wil be fragmentized. The allowed range is from 256 to 2346, and default length is 2346 bytes. Only minor modifications of the value range are recommended here.

4. **SSID**

   Name your wireless network, and the default is previously selected wireless AP.

5. **bg Mode**

   This field indicates the 802.11g interface mode. **802.11g** prevents the 802.11b clients from accessing the router; **802.11b** provides 802.11b standard wireless network. By default, the value is **bg Mixed**, which allows both 802.11b and 802.11g clients to access the router.

6. **Rate**

   Select the transmission rate up to 54Mbps for the network. The default setting is **Auto**.

7. **Channel**

   MT4205 supports up to 14 overlapping channels for radio communication (For the US and most of Europe, channel 1, 6 & 11 are used.) By default, the channel is **Auto**.

8. **Obtain IP Automatically**

   Check to allow system automatically obtaining IP.

9. **Specify an IP**

   Put in the required information as specified upon your demand.

10. **Encryption**

    Include 4 options of **Open System**, **Shared Key**, **TKIP** and **AES**.

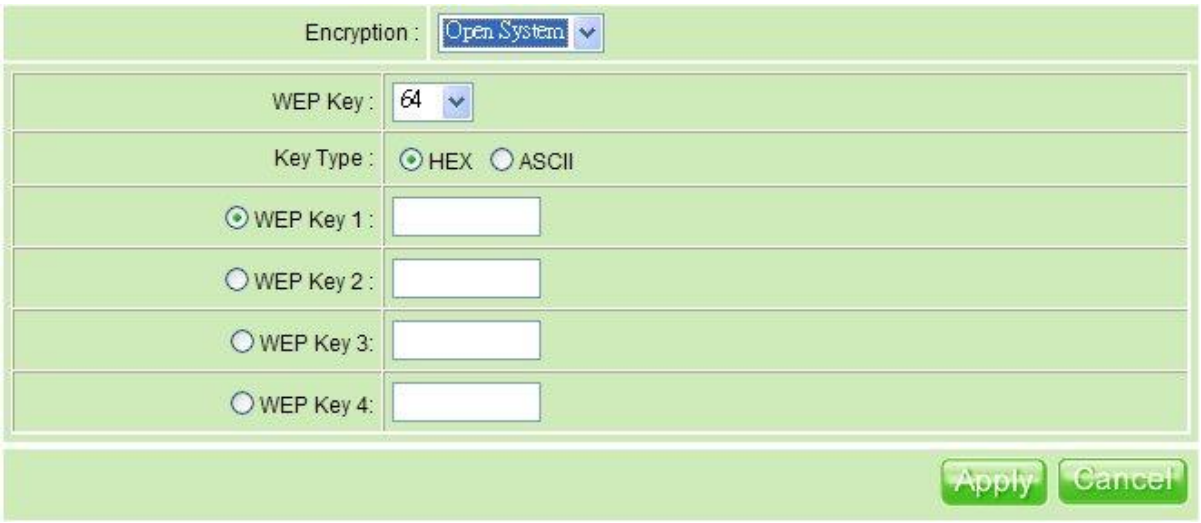
    Open System & Shared Key

    WEP Encryption

    MT4205 supports both 64-bit and 128-bit encryption using the Wired Equivalent Privacy (WEP) algorithm. Select the type of encryption you want to use (64 or 128 bit) and configure one to four WEP Keys. The “1280bit” method is more secure than the “64-bit”.

    Key Type: For 64bits WEP key, either 5 ASCII characters or 10 hexadecimal digitals leading by **0x** can be entered. For 128bits WEP key, either 13 ASCII characters or 26 hexadecimal digits leading by **0x** can be entered.

Note: 128 bits WEP is most secure, but has more encryption/decryption overhead. Note that all wireless devices must support the same WEP encryption bit size and have the same key. Four keys can be entered here, but only one key can be selected at a time. The keys can be entered in ASCII or Hexadecimal. Select the item from drop-down list you wish to use.



TKIP & AES

PSK Key

The applied algorithm is like WPA. However, WPA-PSK is using a simple code to generate the key, and the key length is 64 characters of Hex (0~9, a~f and A~F).

11. Apply & Cancel

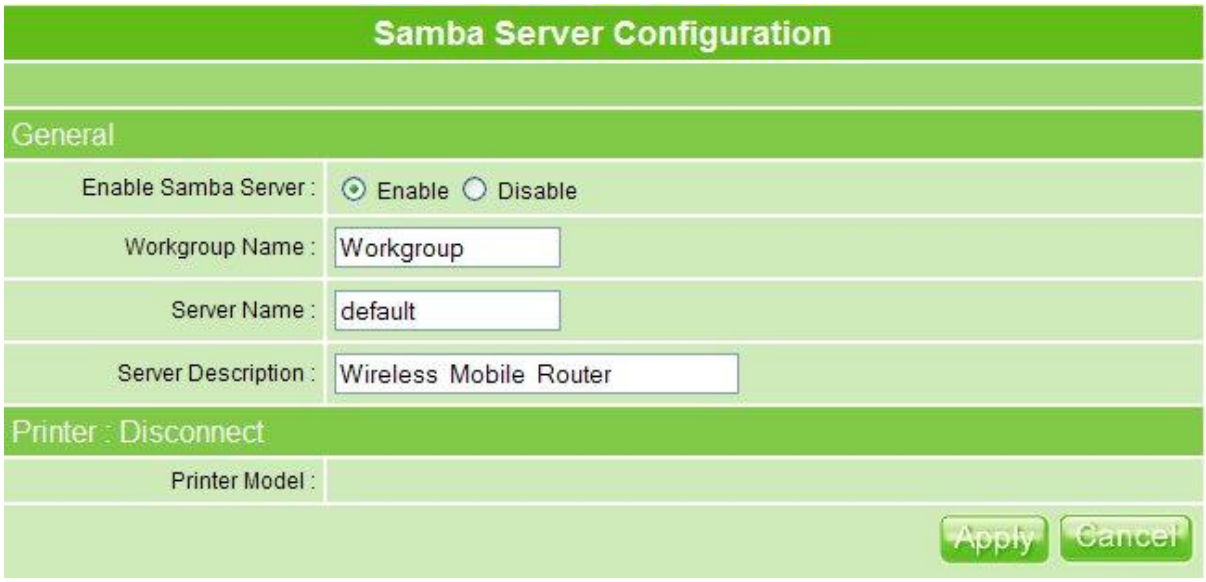
Click **Apply** to save or **Cancel** to clear the settings on this page.

5.4 Server

MT4205 provides 4 server setups, including Samba Server, FTP Server, Web Camera Server and Printer Server.

5.4.1 Samba Server

By supporting NetBIOS Protocol, MT4205 provides LAN users to share files or printer via My Network Places. Click **Samba Server** to proceed.



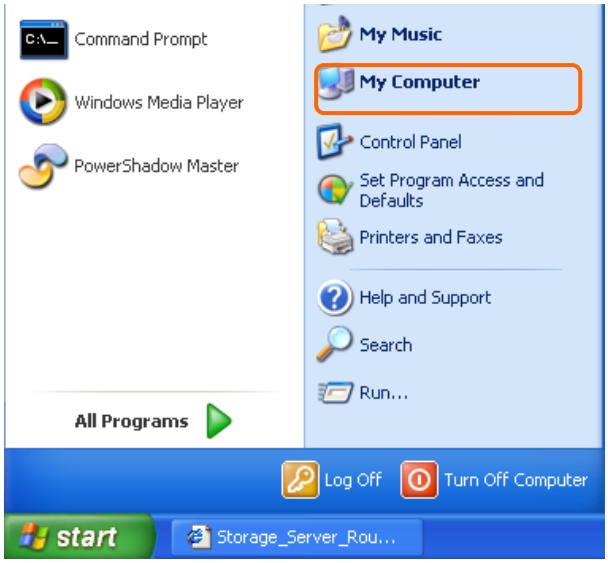
1. **Enable Samba Server**
   Check to **Enable**/**Disable** while connecting.
2. **Workgroup Name**
   Fill in the name, and the default is **Workgroup**.
3. **Server Name**
   Name your server.
4. **Server Description**
   Describe your server by demand, and the default is **Wireless Mobile Router**.
5. **Printer Model**
   Printer model appears when connected.
6. **Apply & Cancel**
   Click **Apply** to save or **Cancel** to clear settings.

5.4.1.1 How to Access File Sharing Directory

Please follow the steps below.

【Step 1】

Go to **Start** and click **My Computer**.

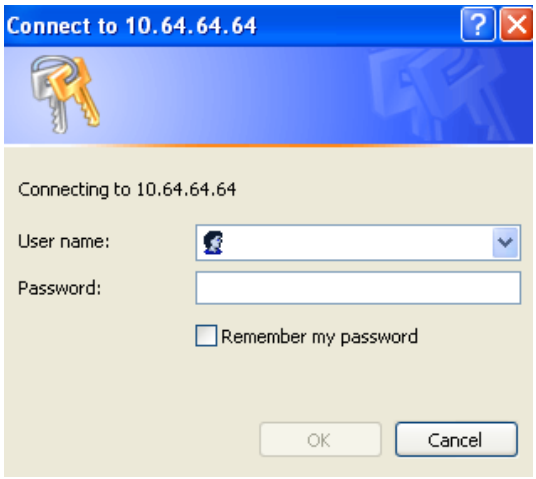


【Step 2】

Fill in blank address field with \\10.64.64.64.

【Step 3】

A window pops up asking for user name and password. If log in as an administrator, please enter **admin** for both fields; otherwise, fill in with personal account and password. Click **OK** after finished.



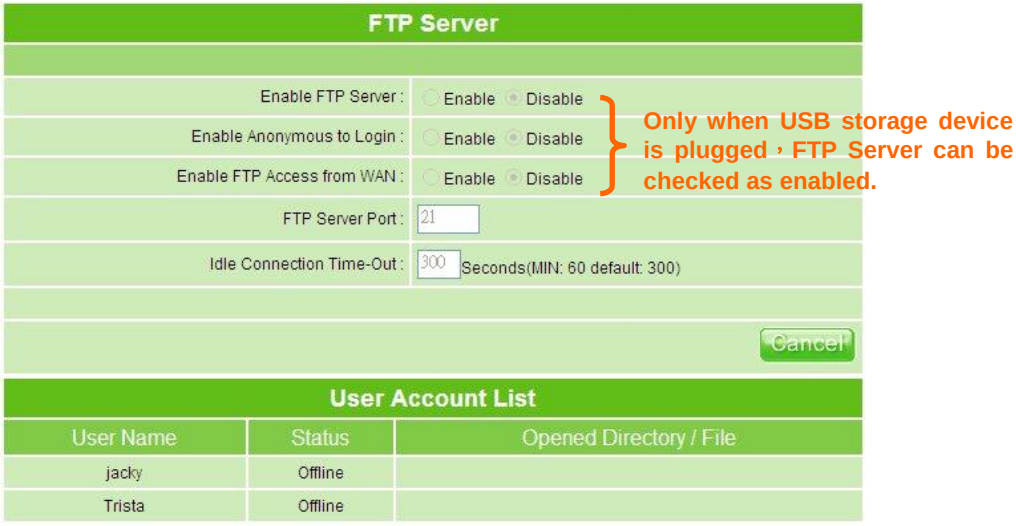
【Step 4】

As the window below appears, login user has entered file sharing directory, and the folders underneath are all available for sharing locally.

Note: Only **2** icons show up at most.
1. If a USB flash drive/hard disk is connected and enabled, the **samba** folder shows up.
2. If a USB printer is connected and enabled, the **printer** icon shows up.

5.4.2 FTP Server

FTP Server utility allows both local and remote users to upload or download files, pictures or MP3 music from the same storage device in most easy and timely fashion. Before configuring FTP Server, please make sure the storage device is properly plugged into any USB port on the router and make sure this USB storage device is detected by the router.


FTP Server
Enable FTP Server : Enable Disable
Enable Anonymous to Login : Enable Disable
Enable FTP Access from WAN : Enable Disable
Only when USB storage device is plugged，FTP Server can be checked as enabled.
FTP Server Port : 21
Idle Connection Time-Out : 300 Seconds(MIN: 60 default: 300)
Cancel
User Account List
User Name
Status
Opened Directory / File
jacky
Offline
Trista
Offline

1. **Enable FTP Server:** The Enable for FTP Server only can be selected when USB storage device plugged.
2. **Enable Anonymous to Login:** Allow anonymous to login after check on enable.

3. **Enable FTP Access from WAN:** Allow FTP access from WAN side by checking on Enable for this item.
4. **FTP Server Port:** Define the FTP command transfer service port. If you want to change this port number, also remember to change the service port setting of your FTP client.
5. **Idle connection Time-Out:** When a specific time value is added, FTP Server will be de-activated if it has no activity within the time limit.
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.
7. **User Account List**
   The list shows all user names, status and opened directory/files.

Notice: FTP server is compatible with FAT32 or EXT3 format USB storage device. In case you need to format your USB storage device. Please always make sure the device is formatted with FAT32 or EXT3 standard.

5.4.3 Web Camera Server

MT4205 has built-in Web Cam Server. By connecting web camera to the router, it allows user to monitor their home or office from remote locations. **Motion Detection** function has also been built-in and allows user to use webcam to detect any movements in their houses or offices and send email alert with captured images.

5.4.3.1 Web Camera Server Basic Setup

1. **Enable Webcam Server:** Allow using this function by checking on enable.
2. **Access from WAN:** Allow webcam can access from WAN side by checking on enable for this item.
3. **Image format:** The default is 320x424 pixels.
4. **Preview:** Click on this button, you can preview the image from webcam.
5. **Record Setting:** Please see the detail advance setting in **5.4.2.2 Web Camera Server Advanced Configuration.**
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.

5.4.3.2 Web Camera Server Advanced Configuration

Click **Record Setting**, and the screen below appears.

1. **Enable save image:** If you want to save the image from webcam, please check on enable.
2. **Save image interval:** For saving image, you can set the save interval time, the default value is 5 seconds.
3. **Save Location:** Set the save location for webcam image, you may save into USB HDD or remote FTP; if select save to remote FTP, please continue following remote FTP setting.
4. **USB HDD Directory:** The section provides option of which folder should be used for saving webcam image.
5. **Remote FTP URL:** Input the FTP URL for saving webcam image.
6. **Remote FTP port:** Input the FTP port number under URL to save image.
7. **Remote FTP user:** Enter the user's name you like and it will be used to save the webcam image into the FTP server.
8. **Remote FTP password:** Put in a password for validation while accessing.
9. **Remote FTP Directory:** To provide option of which folder should be used for saving webcam image.
10. **Back:** Click on **Back** button for returning to Webcam Basic Setup screen.
11. **Apply & Cancel**

    Click **Apply** to continue or **Cancel** to clear the settings on this page.

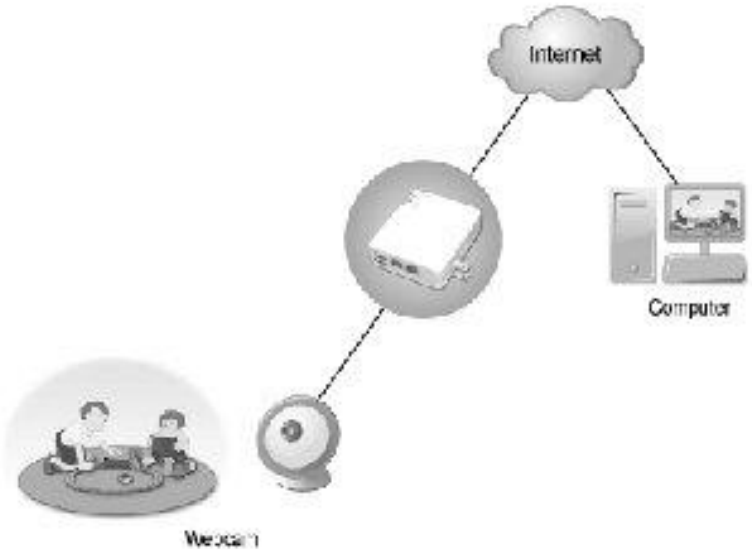
5.4.3.3 Application for Web Camera

5.4.3.3.1 Web Camera Monitoring Application

Monitor your home or take pictures with a Webcam via MT4205; one can set up the monitoring or recording of all images into the USB HDD for reviewing. Often marketed as surveillance tools for home or office security; network Webcams are now being employed by early adopters for more personal matters, such as watching kids and monitoring pets. The Webcam can be remotely accessed and controlled via a browser. In addition, record and monitor live actions with USB webcam; then view the image through Internet browsers or WiFi mobile phones, such as 3G mobiles.

5.4.3.3.1.1 Web Camera Monitoring via WAN Connection

For viewing the image via WAN connection, see the diagram below.



Follow instructions below to set up WAN IP address.

【Step 1】

Click **Network Configuration** under the directory of **Log & Status** to check the selected wireless IP address, for example, 192.168.1.2 as below.

Network Configuration	
Wireless	
Status:	Connected
SSID:	MFP_Server_Router
MAC:	00:14:85:D0:BB:8D
IP:	192.168.1.2
Mask:	255.255.255.0
Gateway:	192.168.1.1
DNS:	192.168.1.1
Signal:	70%

【Step 2】

Open web browser and fill http://192.168.1.1 into address field. The homepage of connected router with MT4205 shows up. Click **Network Configuration** under the directory of **Log & Status** to check its IP address, such as the example below.

WAN	
MAC Address:	00:0e:68:00:39:54
Mode:	Static IP
Status:	CONNECTION !
IP Address:	210.68.117.196
Subnet Mask:	255.255.255.0
Default Gateway:	210.68.117.1
DNS:	server1:139.175.55.244 server2:139.175.252.16
Receive bytes:	154407
Receive packets:	880
Transmit bytes:	34514
Transmit packets:	197

【Step 3】

Click **Virtual Server** under the directory of **NAT** in **Advance** setup. Then check **Enable** and put 192.168.1.2 in Private IP field. Fill in **80** for both Private Port and Public Port, and then click **Add**. After completed, click **Apply** to save the setting.

Virtual Server Configuration

Virtual Server is used to allow Internet users to access LAN services

Enable/Disable Virtual Servers :	○ Enable ◉ Disable
Description :	
Private IP :	. . .
Protocol Type :	TCP
Private Port :	(MIN:0 MAX:65535 Range: xxxxx:xxxxx)
Public Port :	(MIN:0 MAX:65535 Range: xxxxx:xxxxx)
Schedule :	◉ Always ○ From Sun 00 : 00 to Sun 00 : 00

Add

Apply Cancel

Virtual Server List

ID	Status	Description	Private IP	Protocol(private/public)	Schedule	Edit/Delete
1	Enable		192.168.1.2	TCP(80/80)	always	Edit / Delete

【Step 4】

Plug internet wire into the WAN port and connect to your PC. Then open your web browser and fill in http://192.168.1.2/webcam.html into address field, so the login webpage shows up as below.

【Step 5】

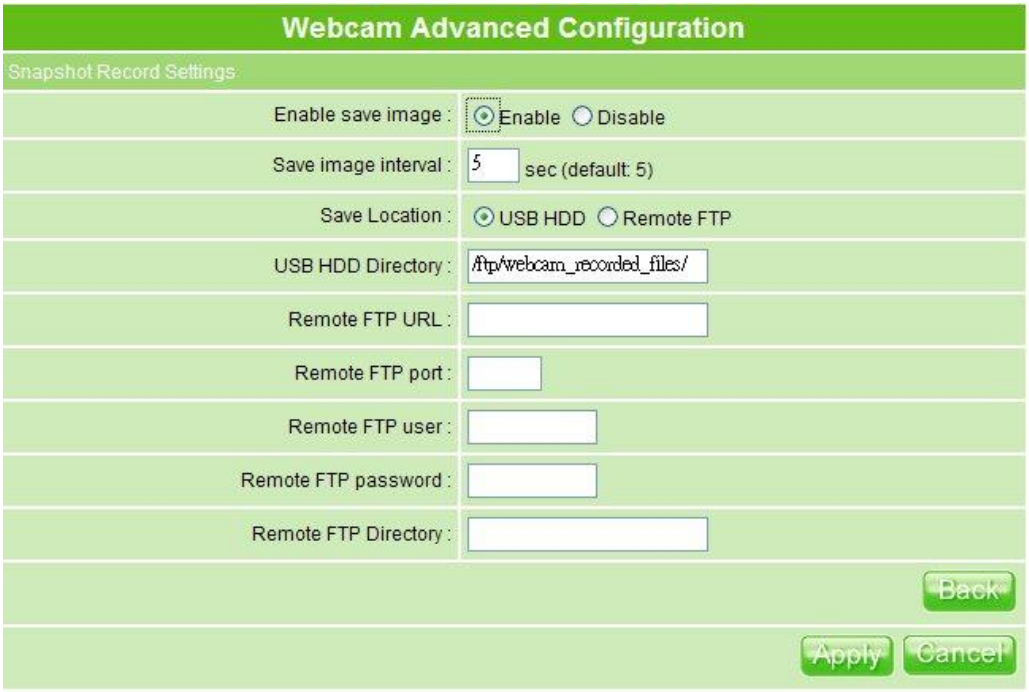
After entering user name and password, the following monitor image shows up.

5.4.3.3.2 Web Camera Recording

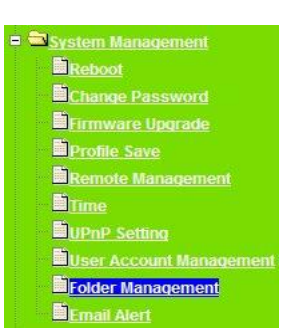
5.4.3.3.2.1 Administrator Setup

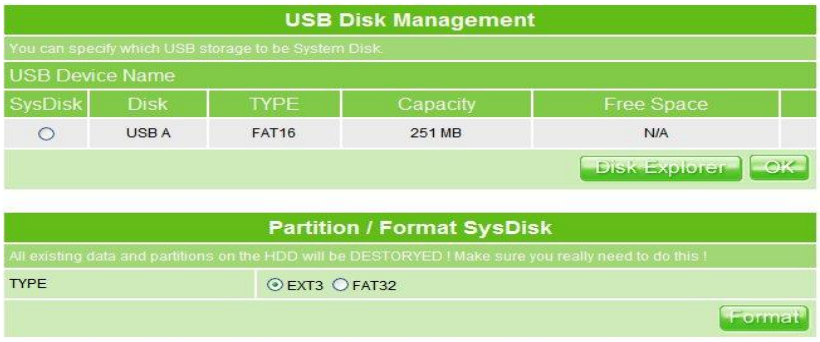
MT4205 also can record the pictures from Webcam; only ***Administrator*** can activate the settings. Select **Web Camera Server** from main **Menu** and enable this function, click on **Record Setting** button for further setting.

To set up the Webcam Advanced Configuration for each text box, the image from webcam will be recorded into your USB HDD or Remote FTP. Click on **Apply** after setup finished.

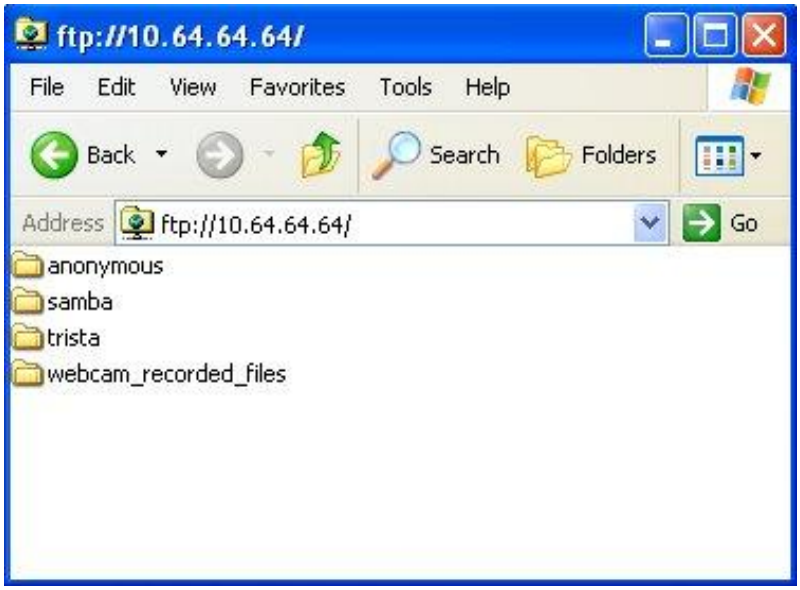


For administrator, you may view all the images from webcam recording, please select **Folder Management** and click on **Disk Explorer** to view entire folder inside the disk including webcam record files.

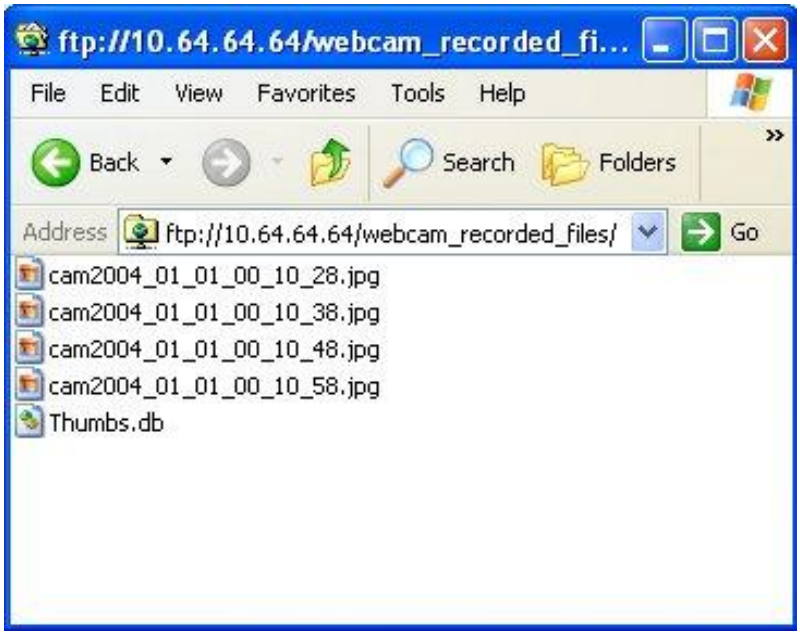



USB Disk Management
You can specify which USB storage to be System Disk.
USB Device Name
SysDisk Disk TYPE Capacity Free Space
USB A FAT16 251 MB N/A
Disk Explorer
OK
Partition / Format SysDisk
All existing data and partitions on the HDD will be DESTORYED ! Make sure you really need to do this !
TYPE EXT3 FAT32
Format

After click on **Disk Explorer**, you will see the folder screen appear including all the folders inside MT4205. (Below is the example.)

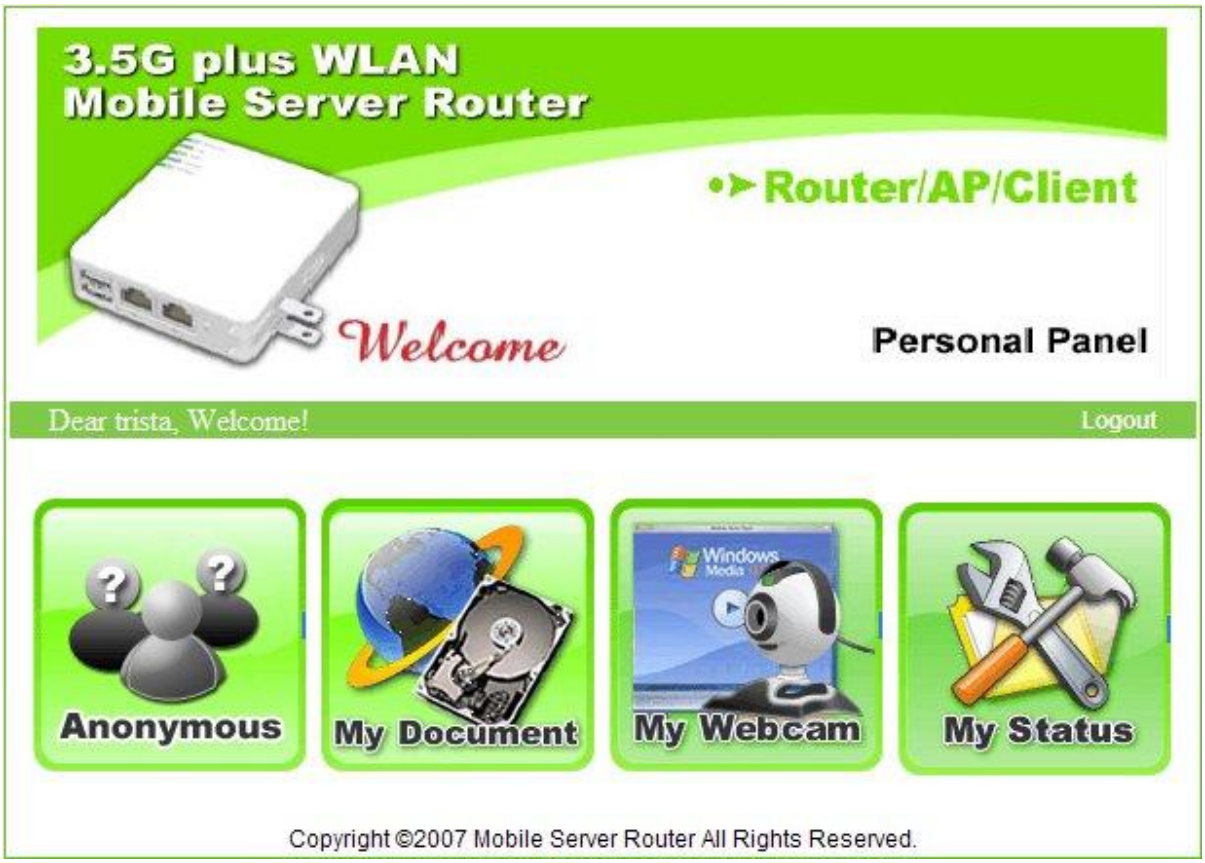


For getting the images from web camera or any files inside router, you may copy the files into your own HDDs directly. In addition, all image files are stored in **webcam_recorded_files** folder, click to examine the content inside.

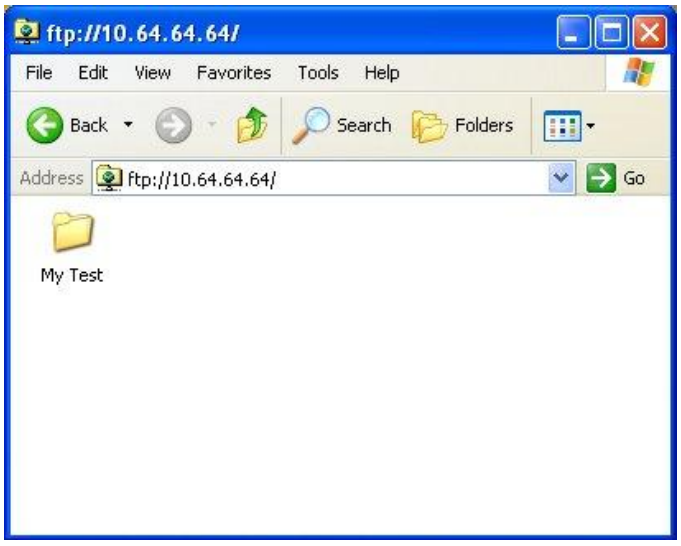


5.4.3.3.2.2 Personal Application

All the users under administrator's setting can view entire webcam real-time images from **My Webcam**. Please log in with your own personal account. For viewing your own folder, please click ***"My Document"***.



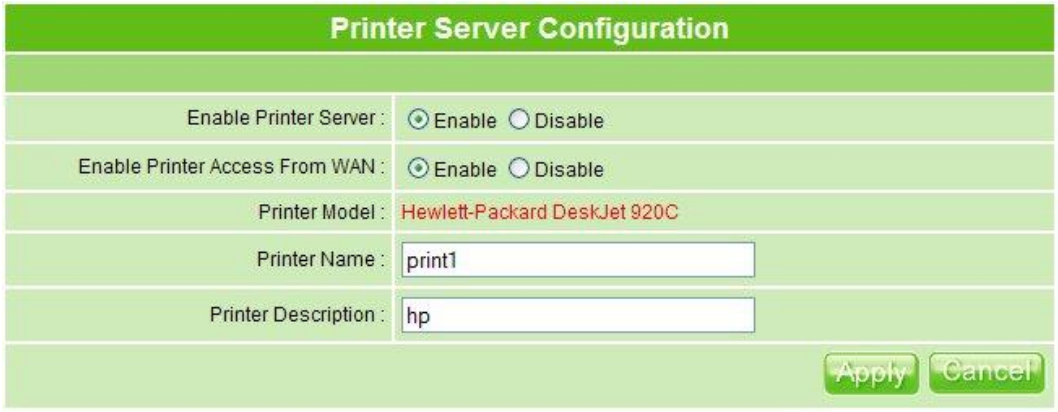
After click on ***My Document***, you will see folder screen appear as the example below. You can store files here, too.



Notice: If you can't open the folder, please check with administrator to set up your FTP access right.

5.4.4 Printer Server

Follow the illustrations below to set up your MT4205 and USB-connected printer.



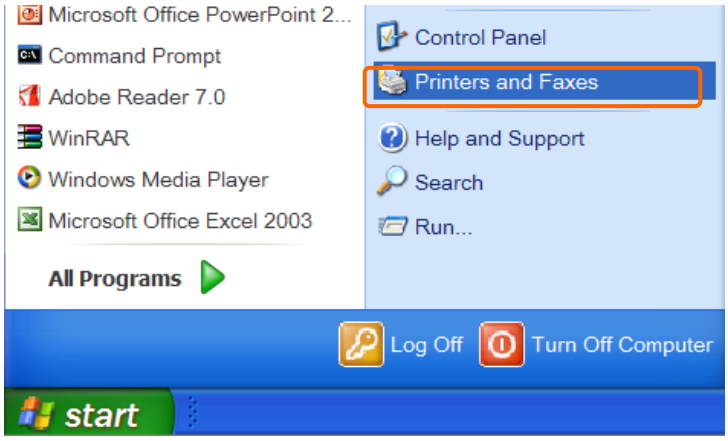
1. **Enable Printer Server:** Check enable for applying printer server.
2. **Enable Printer Access From WAN:** Allow printer can access from WAN side by checking enable for this item.
3. **Printer Model:** The printer model shows up while plugging a USB printer.
4. **Printer Name:** Enter the preferred name of your printer.
5. **Printer Description:** Enter the description of printer as your demand.
6. **Apply & Cancel**
   Click **Apply** to continue or **Cancel** to clear the settings on this page.

Besides finishing the above, the printer setting on PC also needs to be set as follows.

5.4.4.1 Printer Setting on PC

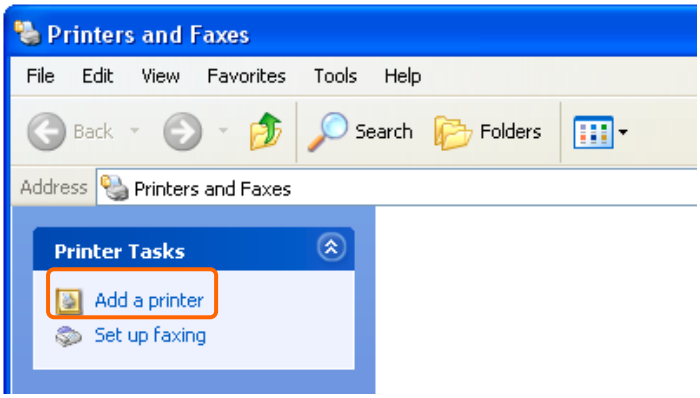
After enabling Printer Server in Quick Setup and Printer Server Configuration, please follow the steps to set the detail **LPR** settings on your PC. (The example below is for Windows XP platform.)

【Step 1】
After setting USB printer on MT4205's setup page, please go to
Start > Printers and Faxes to add a printer.



【Step 2】

Click on **Add a printer** item.



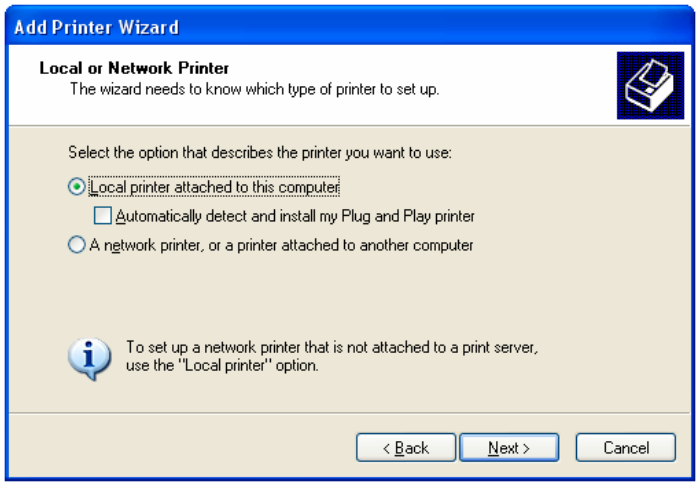
【Step 3】

Click on **Next** button.

Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

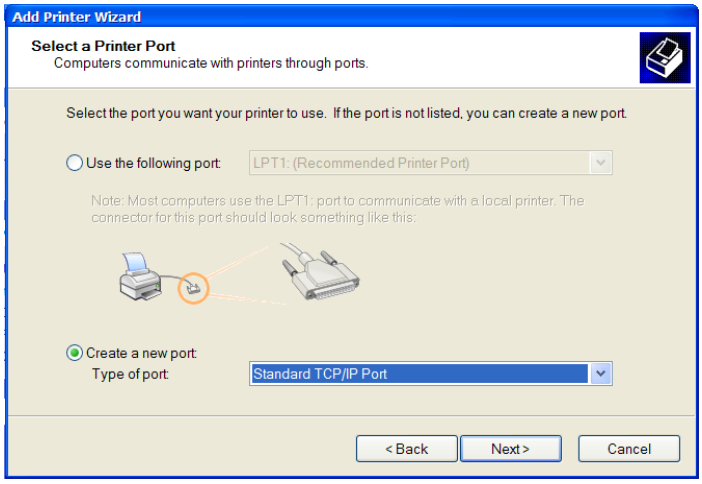
【Step 4】

Select **Local printer attached to this computer**, and click **Next**.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

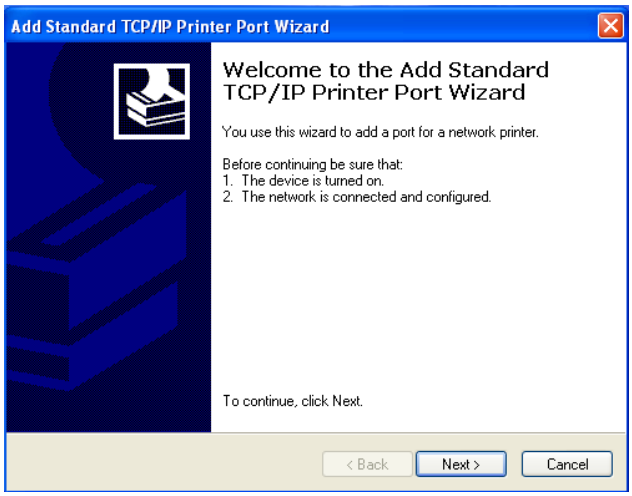
【Step 5】

Select **Create a new port** and choose **Standard TCP/IP Port** from drop-down list, then click **Next**.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Standard TCP/IP Port
< Back
Next >
Cancel

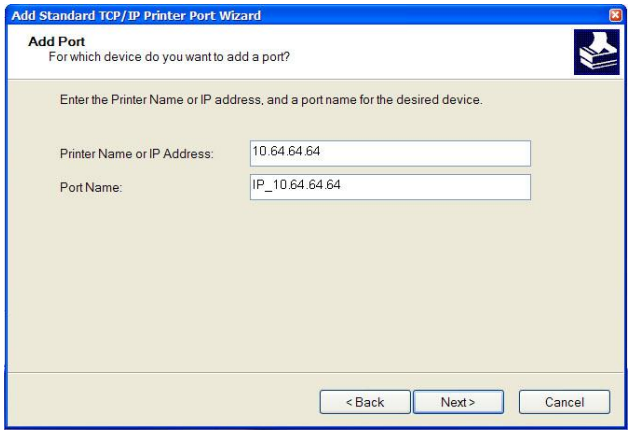
【Step 6】

Click **Next**.


Add Standard TCP/IP Printer Port Wizard
Welcome to the Add Standard TCP/IP Printer Port Wizard
You use this wizard to add a port for a network printer.
Before continuing be sure that:
1. The device is turned on.
2. The network is connected and configured.
To continue, click Next.
< Back
Next >
Cancel

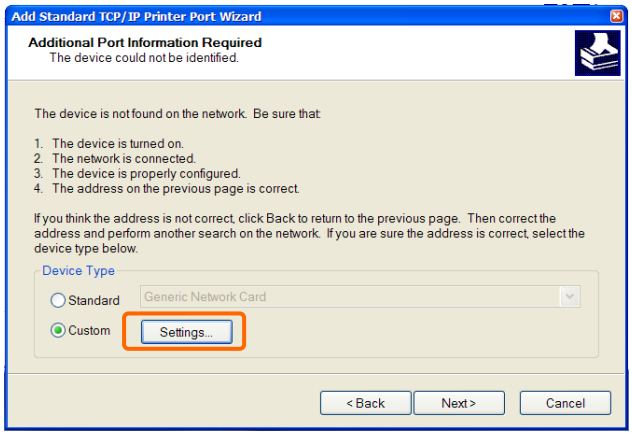
【Step 7】

Put in MT4205's address: **10.64.64.64** (as in Client Mode) and click **Next**.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
10.64.64.64
Port Name:
IP_10.64.64.64
< Back
Next >
Cancel

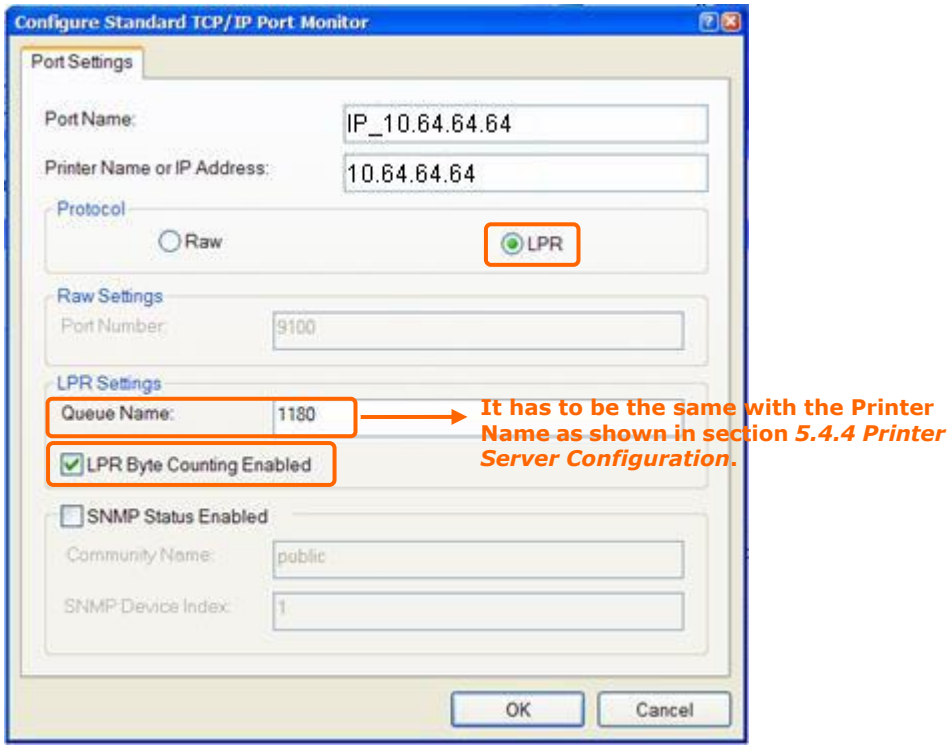
【Step 8】

Select **Custom** and click on **Settings…** button to set the detail setting.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The device is not found on the network. Be sure that:
1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.
If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

【Step 9】

Select **LPR** and give it the same **Queue Name** as USB Printer Name has shown, and mark **LPR Byte Counting Enabled**. Finally, click on **Next** button.

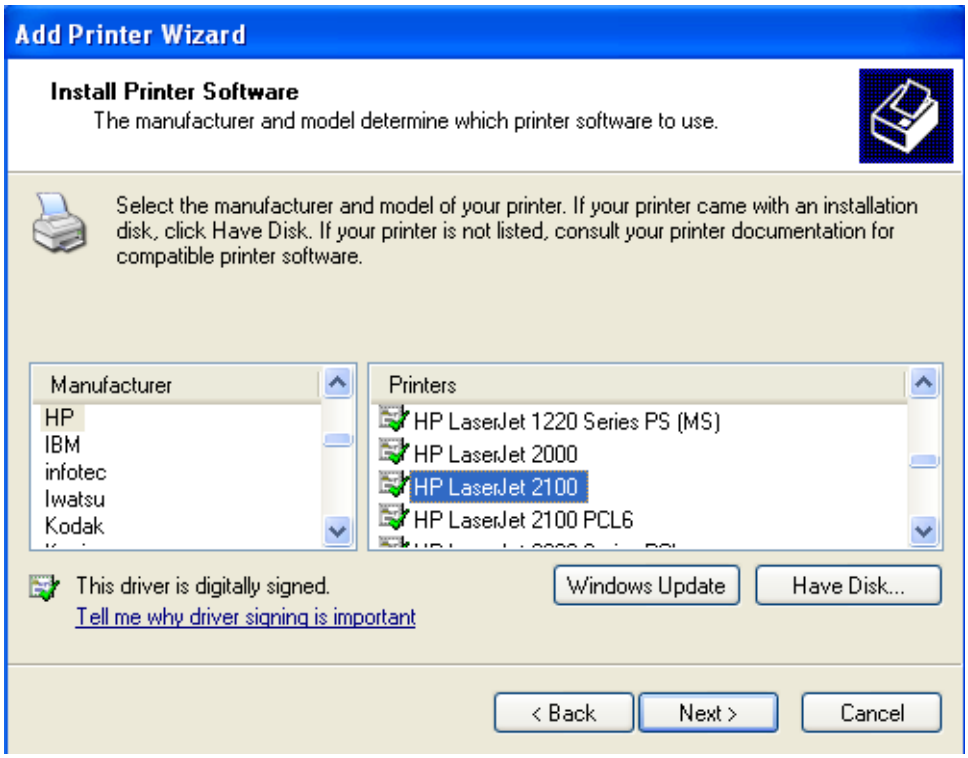


【Step 10】

Click **Finish** on the next screen after the aforesaid settings, you have to install the printer driver as well.

【Step 11】

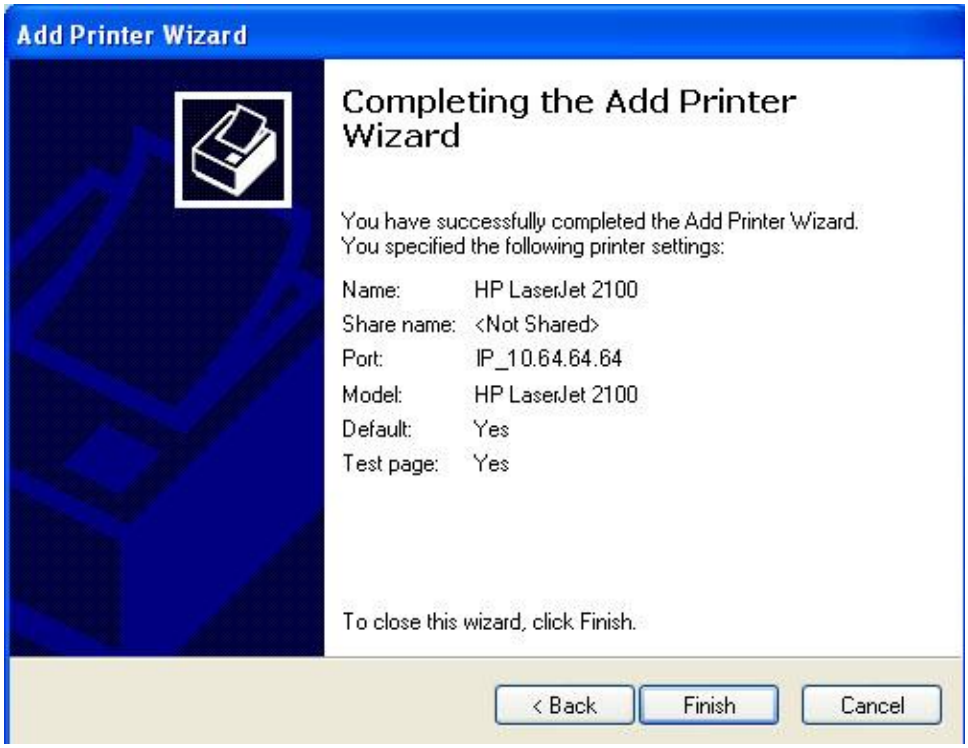
Select the **Manufacturer** and **Printers**. If your printer is not listed in the table, please insert its driver CD and then click on **Have Disk…** button for installation. Or click on **Next** button to finish the setting.


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
HP
IBM
infotec
Iwatsu
Kodak
Printers
HP LaserJet 1220 Series PS (MS)
HP LaserJet 2000
HP LaserJet 2100
HP LaserJet 2100 PCL6
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

You can name your printer, set it as default printer and share your printer as the next screen shown, the **Printer Server** setting is getting completed.

【Step 12】

It shows you the printer settings that you have specified, and then click **Finish**.



5.5 System Management

MT4205 provides system management including password changing, firmware upgrade, time setting, user's account setting and other detail settings. Following is detail explanation for each.

5.5.1 Reboot

If you had entered the wrong configuration while setting up your router or other utilities, you can always reboot your MT4205 by this setting.

It's necessary to reboot the router if it begins working improperly, please click on **Reboot** button to reboot the router.

Reboot
Sometimes it may be necessary to reboot the router if it begins working improperly. Rebooting the router will not delete any of your configuration settings. Click reboot button to reboot the router.
Reboot

5.5.2 Change Password

At this section, the administrator can change the system password. Only the password can be changed, the user name for administrator is **admin** and can't be changed.

Change Password
The router ships with no password.You may set a password or change your current password in this page.
Login : admin
Old Password :
New Password :
New Password (Confirm) :
Apply
Cancel

1. **Old Password:** Enter the original password you set.
2. **New Password:** Enter the new password you want to change.
3. **New Password (Confirm):** Enter the new password again for confirming.
4. **Apply & Cancel**

   Click **Apply** to continue or **Cancel** to clear the settings on this page.

5.5.3 Firmware Upgrade

There is certain risk while upgrading firmware. Upgrading firmware is not recommended unless the significant faulty is found. You can upgrade the firmware of MT4205 on this page. Make sure the firmware you want to use is on the local hard drive of the computer. Click **Firmware Upgrade** to proceed.

Firmware Upgrade
From time to time, the product may release new versions of the router's firmware. You can click Check Firmware button to check and download up-to-date firmware and click Browser button to locate the file from your local harddisk.
Current Firmware Version : Ver2.0.2
Firmware Date : 2007/10/02 12:04:40
Update Firmware :
Browse...
OK
Cancel

1. **Update Firmware:** Click **Browse** to browse the local hard drive and locate the firmware used for update.
2. **OK & Cancel**

   Click **OK** to confirm or **Cancel** to clear the setting on this page.

Notice: Before using a whole new disk, please format it on your PC first, so that it can be formatted on MT4205.

5.5.4 Profile Save

To back up the current configuration setting or load the backup data, also you can restore MT4205 to default setting by this function.

Profiles Save
In this page, you can save your current configuration, restore a previously saved configuration, or restore all of the settings in the router to the factory (default) settings.
Save Settings To PC :
Save
Load Settings From PC :
Browse...
Load
Restore To Factory Default Settings :
Restore
Apply

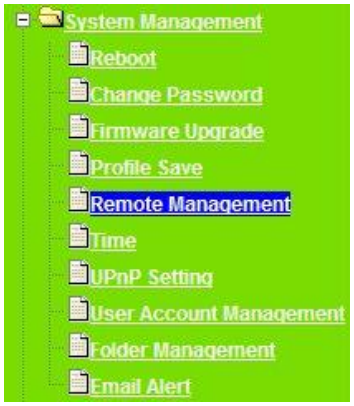
1. **Save Settings To PC:** Click on **Save** button for saving the configuration setting into assigned location.
2. **Load Settings From PC:** Click on "**Browse…**" button for searching the saving

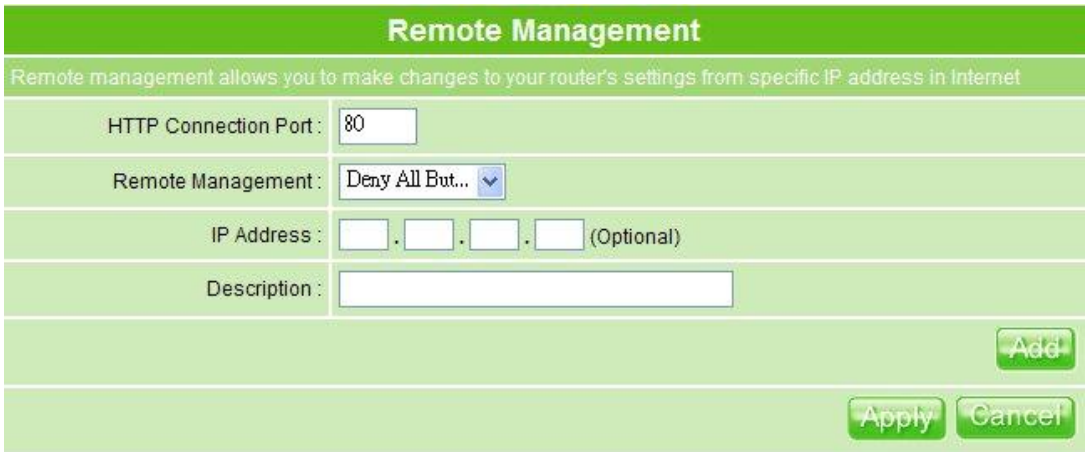
configuration from hard drive, and then click on **Load** button to load all the settings into the router.

3. **Restore To Factory Default Settings:** After you have tried other methods for troubleshooting your network, you may choose to restore MT4205 to the factory default settings.
4. **Apply**
   Click on **Apply** button to save the settings.

5.5.5 Remote Management

Remote Management allows MT4205 to be configured from the Internet by a web browser. In general, only a member of your network can browse the built-in web pages to perform "Administrator" tasks. This feature enables you to perform the tasks from the remote (Internet) host.



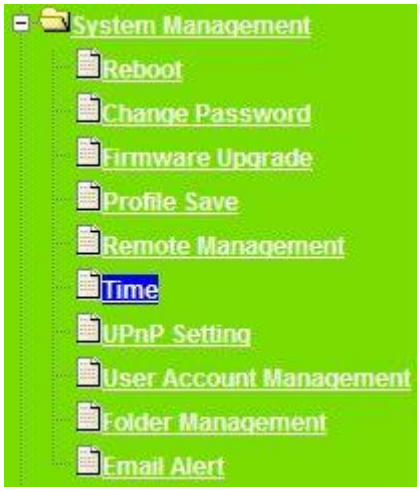


1. **HTTP Connection Port:** The port number used to access the router.

2. **Remote Management:** You can allow any Internet IP address to access the router, or set up deny rule according to IP setting.
3. **IP Address:** Internet IP address of the computer that has access to the router.
4. **Description:** Enter the description for the remote configuration.
5. **Add, Apply & Cancel**
   Click **Add** to add the remote list, and click **Apply** to activate, or **Cancel** to clear the settings on this page.
6. **Remote Management IP List**
   Display, edit or delete IDs, description and IP address of allowed remote list.

5.5.6 Time

The system automatically shows the local time and time on PC. You can set the time and date manually so that it can be adjusted on router accordingly.

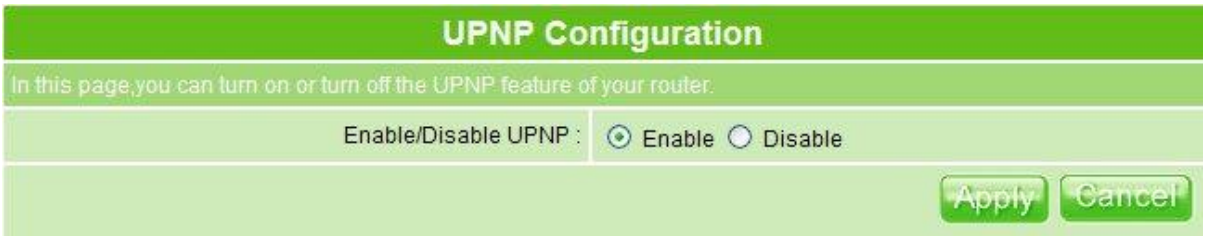


Time Server
Please set your time and time zone in this page.
Local Time : 1970/01/01 Thu 00:28:21
Setup Time Use NTP
Default NTP Server : time.stdtime.gov.tw (optional)
Time Zone : (GMT) Dublin, Edinburgh, Lisbon, London
Daylight saving time : Disable
User Setup
Set the Time : Year : 2008 Month : Jan Day : 10
Hour : 14 Minute : 15 Second : 39
Set Time
Apply
Cancel

1. **Local Time:** The default time within.
2. **Set the Time:** Select this item to set up time by manual, select the date and time from each drop-down list.
3. **Set Time:** Click **Set Time** to set local PC time on router.
4. **Apply & Cancel**
   Click **Apply** to activate or **Cancel** to clear the settings.

5.5.7 UPnP Setting

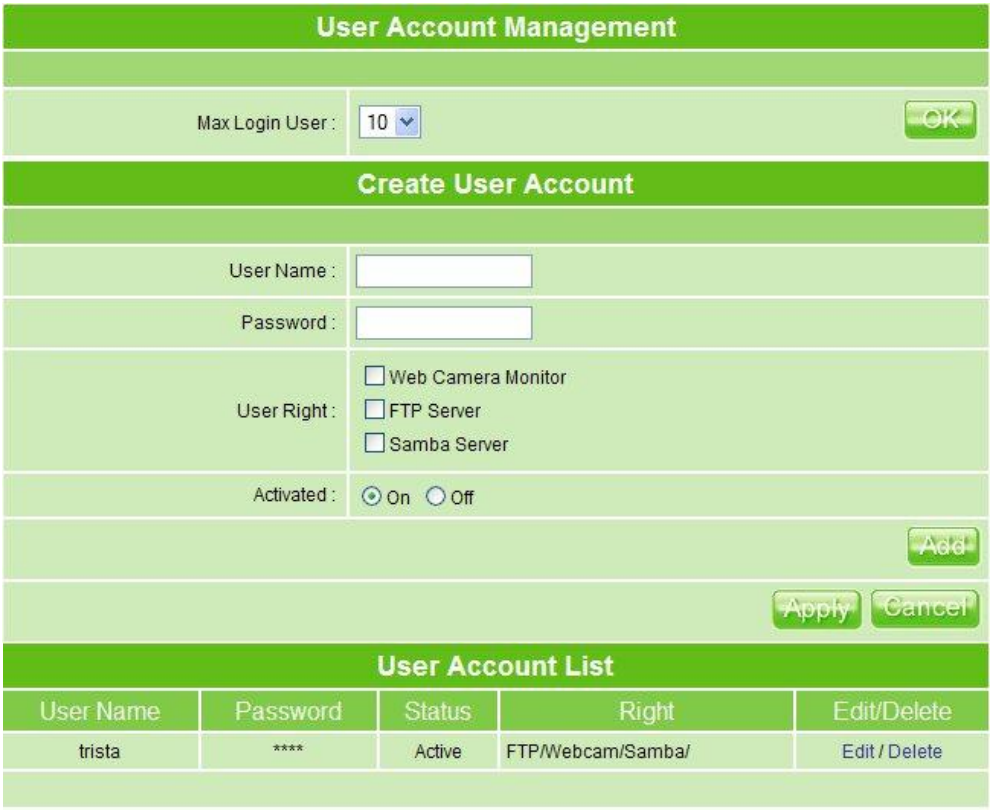
UPnP (Univsersal Plug and Play) allows all devices on the network to connect by node-to-node via TCP/IP protocol.



1. **Enable/Disable UPnP:** Select to enable or disable this service.
2. **Apply, Cancel**
   Click **Apply** to activate this function or **Cancel** to clear the setting.

5.5.8 User Account Management

Personal users can use each individual application such as My Status, My Webcam and My Document. This section is to set the user's right. Also, all the users' rights will be showed in User Account List and allowed to edit or delete by clicking the linking text.



1. **Max Login User:** Set up the maximum users to log in at the same time, select the number from drop-down list. If you want to change the maximum login users only without changing user's information, please click on **OK** button after select login user's number.
2. **User Name:** Create the user name in this blank.
3. **Password:** Set up the user's password.
4. **User Right:** Check to allow set-user accessing Samba folder, monitoring from webcam or using FTP server.
5. **Activated:** Click **On** to allow the user's right to be applied immediately.
6. **Add, Apply & Cancel**

   After finishing the above, click **Add** to create user account. Click **Apply** to add set-user into the account list or **Cancel** to clear the settings on this page.

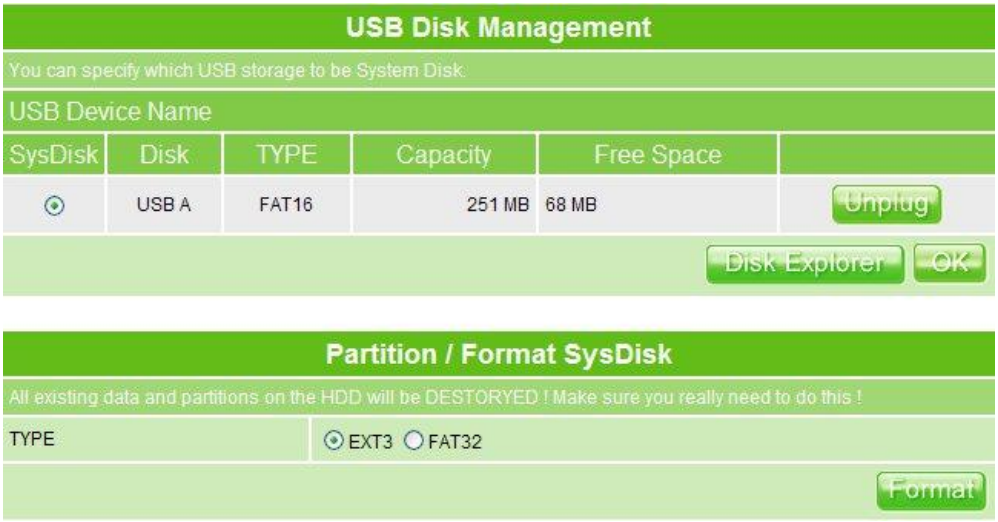
7. User Account List

The list shows all users' names, passwords, status and rights.

5.5.9 Folder Management

Easy to check all the USB storage devices connected to MT4205, view the entire data folder inside each storage devices, and you can manage the disk formatting / partition via clicking the button on this page.

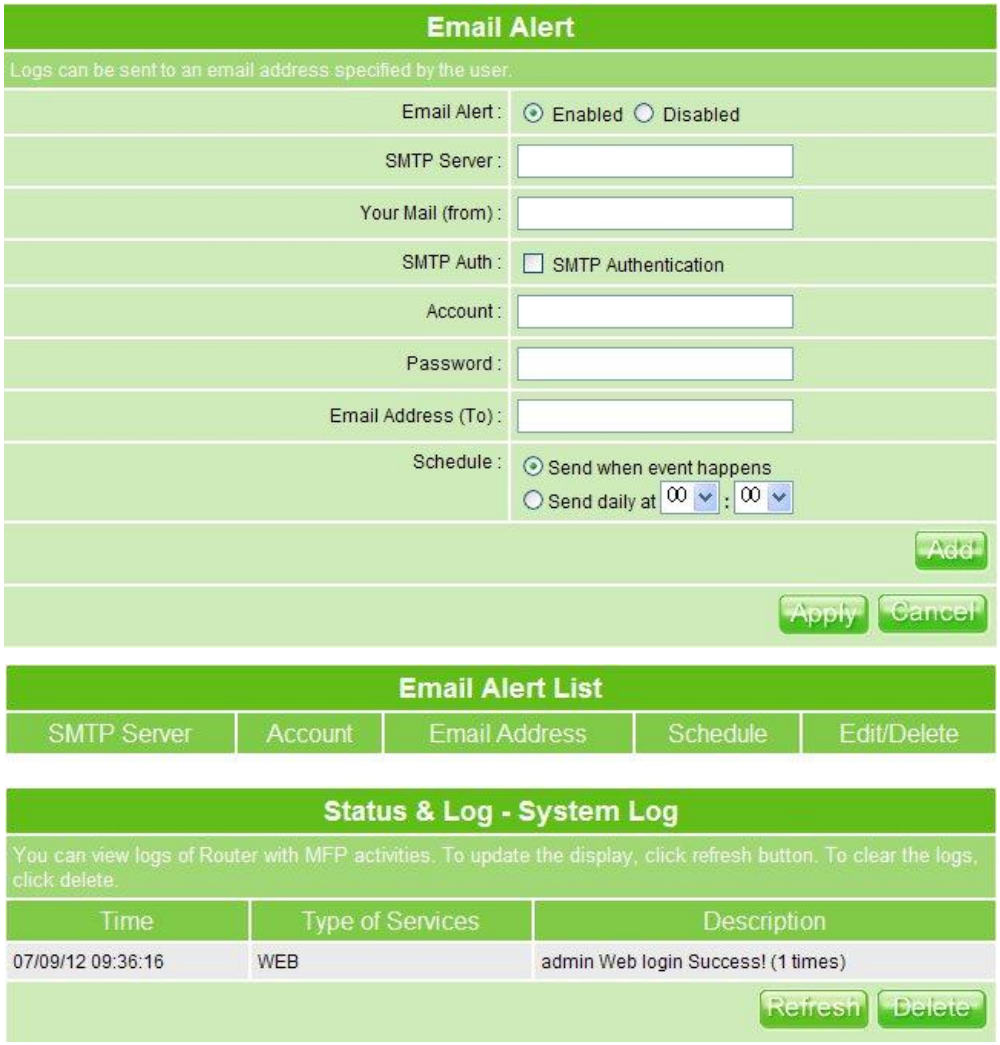
1. Select the USB Disk and click **OK** for refreshing all disks before you perform disk partition, and the **Unplug** button appears afterwards.
2. To partition/format the disk, please select the disk and click on **Format** button.
3. Moreover, if you want to view the data inside the disk, please go to ***5.2.7 FTP Sever Setup*** to enable FTP server and then click on **Disk Explorer** to view all the folders inside the device.



Notice: You have to click on **Unplug** button before removing the USB device from MT4205.

5.5.10 Email Alert

To monitor router activity, you can run on a local PC or a remote one elsewhere on the Internet. And MT4205 provides the email alert facility so that the log messages can be packed as an e-mail for someone who wants to receive these messages by scheduled time. In the following, here explains how to set up the email alert function.



1. **Email Alert:** Check the enable box to activate the email alert service.

2. **SMTP Server:** Specify an IP address of the SMTP server which can send mails from your MT4205 to the recipients' mailboxes directly.
3. **Your Mail (from):** Enter the email address indicated the sending location.
4. **SMTP Auth:** If the email alert needs to be sent via SMTP authentication, please check this item, and then enter the required account and password.
5. **Account:** Enter the email account from which you want to send the alert.
6. **Password:** Enter the email account password to validate.
7. **Email Address (To):** Enter the email address where to receive the alert.
8. **Schedule:** Arrange to send the alert when event happens or by regular time.
9. **Add, Apply & Cancel**
   After finishing the above, click **Add** to set up the rule into email alert list. Then, click **Apply** to save or **Cancel** to clear the settings on this page.
10. **Email Alert List**
    Display, edit or delete a list of relative information in regarding to the above mentioned.
11. **Refresh & Delete**
    Click on **Refresh** to renew the login data and other system status information, or click on **Delete** to clear these logs.

5.6 Log & Status

MT4205 provides the log list, connection status and user's account.

5.6.1 Network Configuration

Network Configuration shows current status of wireless connection and plugged USB devices.

Click **Refresh** if you wish to update the screen list.

Network Configuration

Wireless	
Status:	Connected
SSID:	MFP_Server_Router
MAC:	00:14:85:D0:BB:8D
IP:	192.168.1.2
Mask:	255.255.255.0
Gateway:	192.168.1.1
DNS:	192.168.1.1
Signal:	70%

USB

USB Port	USB Type	Name	Model	Status
USB 00	Webcam	N/A	Generic Camera (no ID)	Enabled
USB 01	Storage	N/A	JMicron USB to ATA/ATAPI Bridge	Enabled

Refresh

5.6.2 User Account List

This section shows all users' information.

Check the user name, status and opened directory/file on screen.

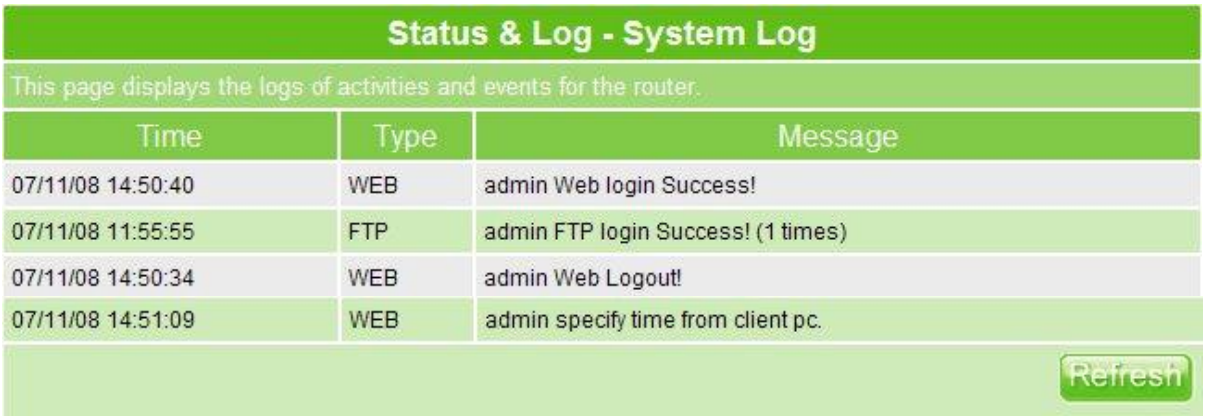
User Account List

User Name	Status	Opened Directory / File
trista	Online	/mnt/ftp/trista/my

5.6.3 Event Log

MT4205 provides system logs for review.

The system status log shows logging time, type and detail information as below. Click **Refresh** to update.



5.7 Logout

Click **Logout** on the bottom menu to exit and go back to login home page.

5.8 Personal Configuration

Open a Microsoft Internet Explorer, Mozilla Firefox or Apple Safari browser, and enter http://10.64.64.64 (Default Gateway) into browser's blank field.

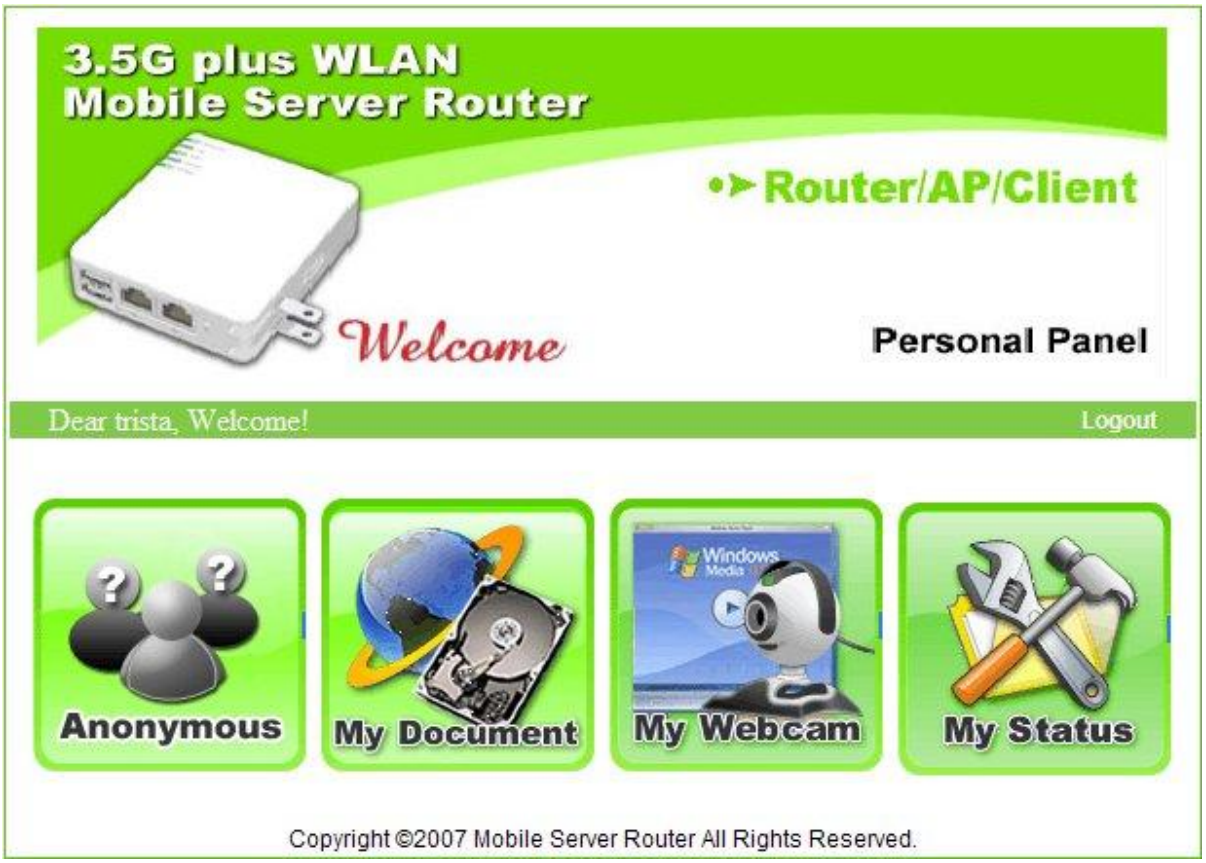
Notice: If the homepage doesn't appear, please check whether the TCP/IP configuration is obtaining IP address automatically or not. If you don't know how to do this, please refer to ***1.5 Get your IP Automatically & Manually***.

Homepage

Click **Personal Panel** and log in with your own user account. (If you can't access your personal account, please check with administrator for validation.)

Personal Panel

Screen below shows every login user's access rights, including **Anonymous**, **My Document**, **My Webcam** and **My Status**.



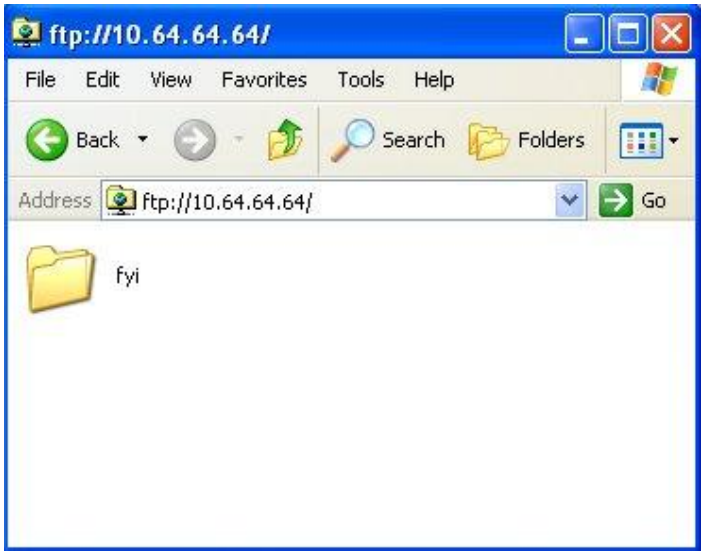
MT4205 provides personal control panel for every login user's entrance to each application screen, please click on each icon for application. The icons appear in gray color can't be clicked if the user doesn't have the right to use that function; even though there is none to be set, the user can still apply **My Status**.

Notice: The available access rights are depended on administrator's authorization in ***5.5.8 User Account Management***.

5.8.1 Anonymous

"**Anonymous**" shows all the files stored in USB HDD by administrator and allows any login user to check the folder and copy files to the HD via Internet. The following is the detail description.

Click **Anonymous** to access the shared folder created by administrator and freely download those files underneath to personal hard drives.

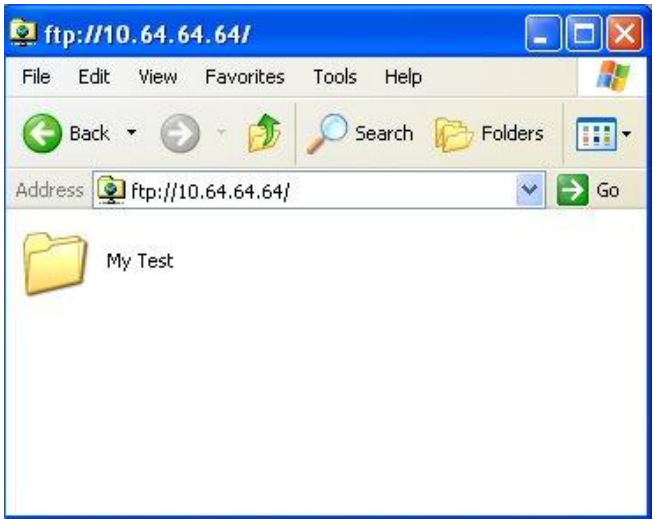


Notice: If you can't access **Anonymous** folder, please check with administrator to enable your FTP server rights. Files under this directory are only for downloading, but not for uploading, deleting, or edting.

5.8.2 My Document

"**My Document**" shows all the files in USB HDD under each user's account. Login user can also create the folder or copy files into the HD directly via Internet. The illustrated below is the detail description of folder inside.

Click **My Document** and opens another web page to show all the files in your own folder.



Notice: If you can't access this folder, please check with administrator to enable your FTP server rights.

5.8.3 My Webcam

"**My Webcam**" application allows you to view the real time image when the web camera is on.

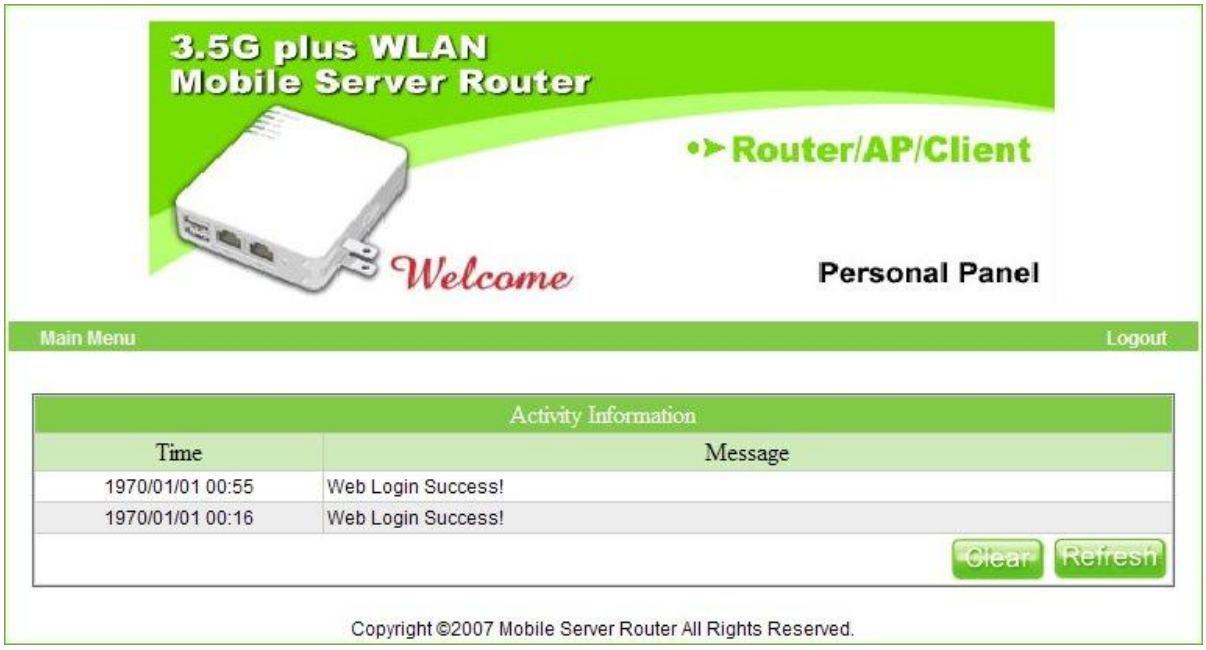
Click **My Webcam**, and the system pops up a new window to display real time image as the example below shows.

Notice: If the image from webcam can't be viewed, it may be caused by Internet security setting and needs to be corrected or installed with the Java program.

5.8.4 My Status

"**My Status**" shows all the login information for your personal account.

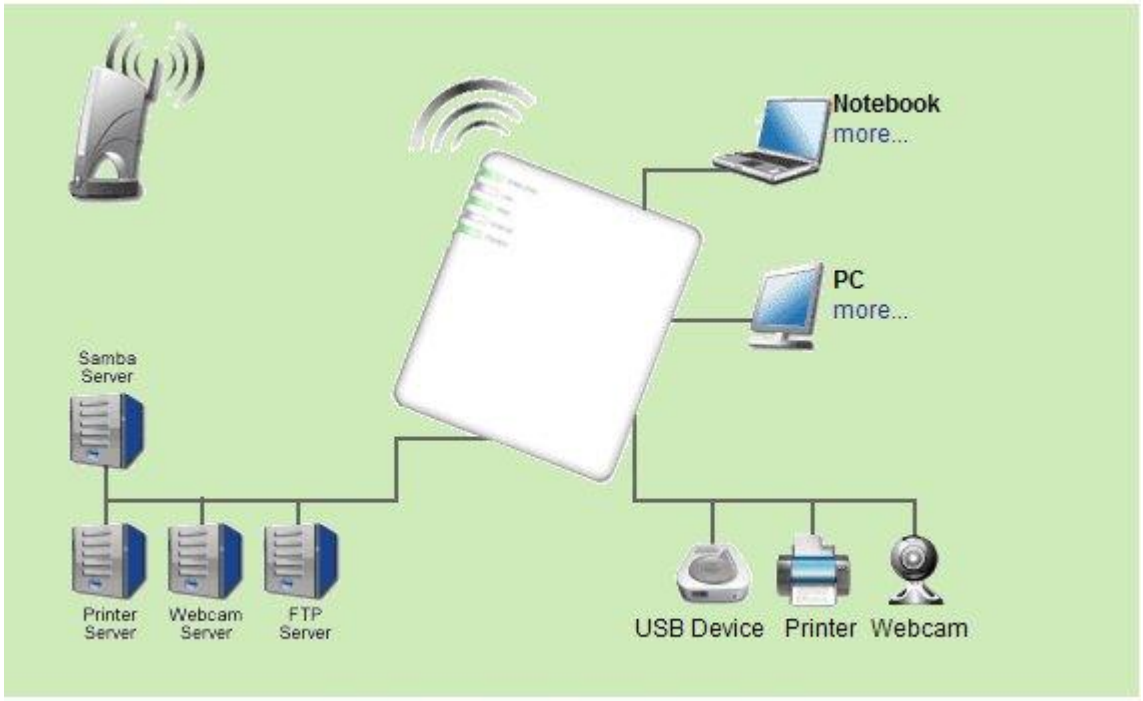
Click **Main Menu** on the left to go back main control panel and other applications.



Notice: All above usage information is based on administrator's setup.

5.9 Site Map

MT4205 provides site map clicking for each icon to carry out the easy setup from the home page.



Chapter 6 DDNS Service Application

DDNS is a service changes the dynamic IP to the static IP. The settings of DDNS can solve the problem of being given the different IP by router every time. After setting the Router, your host name would correspond to your dynamic IP. Moreover, via the host name application, it could be easier for you to use FTP, Webcam and Printer remotely.

Dynamic DNS allows you to make an assumed name as a dynamic IP address to a static host name. Please configure the dynamic DNS below. Please select **Dynamic DNS** under the **IP Config** folder, and follow the instructions below to enter the **Dynamic DNS** page to configure the settings you want.

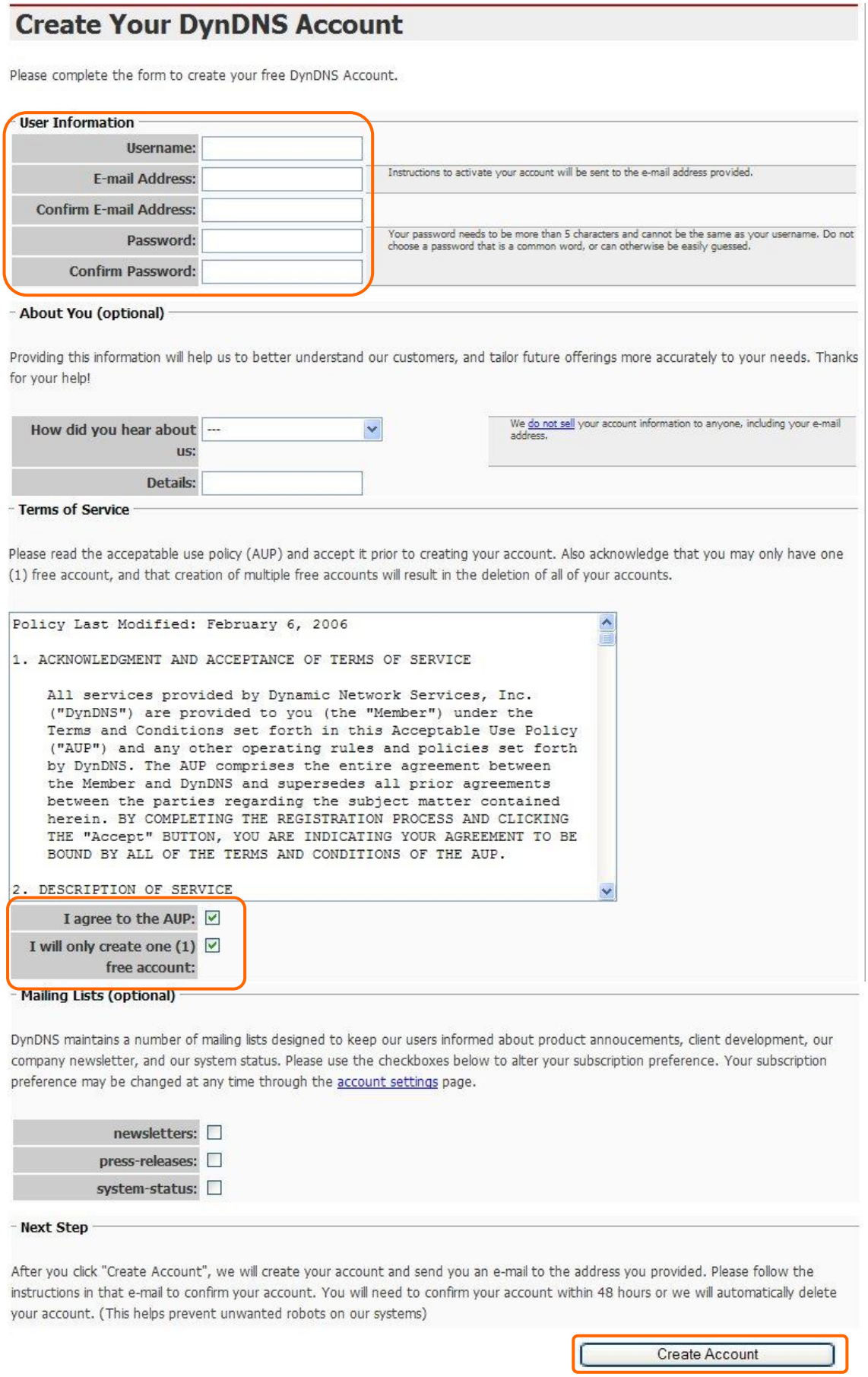
If you don't have a DDNS account, please follow the steps to complete your DDNS with Dynamic IP settings.

【Step 1】

First access the Internet and fill http://www.dyndns.com/ into the address field of your web browser, then click **Create Account**.

【Step 2】

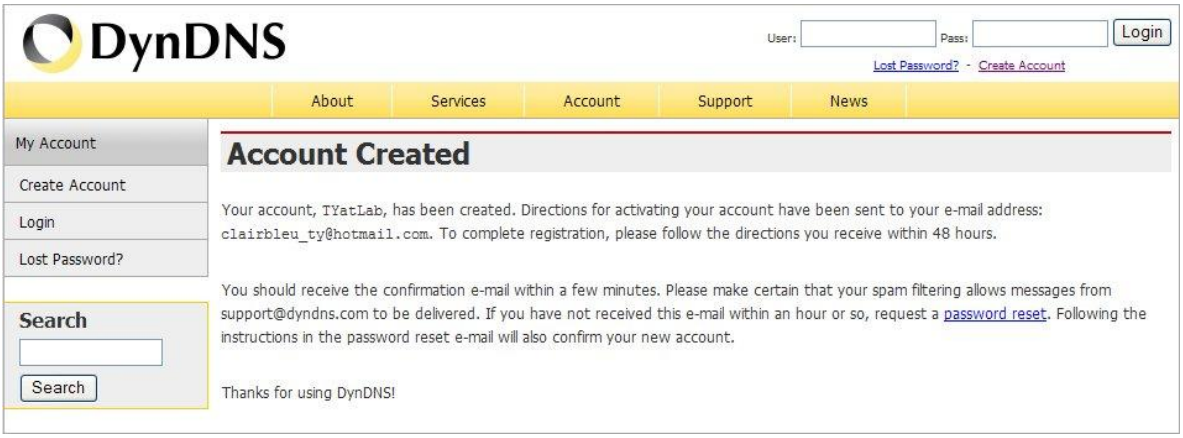
Fill in the form as required, and then click on **Create Account** button.


Create Your DynDNS Account
Please complete the form to create your free DynDNS Account.
User Information
Username:
E-mail Address:
Instructions to activate your account will be sent to the e-mail address provided.
Confirm E-mail Address:
Password:
Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.
Confirm Password:
About You (optional)
Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!
How did you hear about us:

We do not sell your account information to anyone, including your e-mail address.
Details:
Terms of Service
Please read the accepatable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.
Policy Last Modified: February 6, 2006
1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE
All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises the entire agreement between the Member and DynDNS and supersedes all prior agreements between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.
2. DESCRIPTION OF SERVICE
I agree to the AUP:
I will only create one (1) free account:
Mailing Lists (optional)
DynDNS maintains a number of mailing lists designed to keep our users informed about product annoucements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the account settings page.
newsletters:
press-releases:
system-status:
Next Step
After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)
Create Account

【Step 3】

When you got this account created message, close it, and check your mailbox. You would get a mail from DynDNS website.


DynDNS
User:
Pass:
Login
Lost Password? - Create Account
About
Services
Account
Support
News
My Account
Create Account
Login
Lost Password?
Search
Search
Account Created
Your account, TYatLab, has been created. Directions for activating your account have been sent to your e-mail address: clairbleu_ty@hotmail.com. To complete registration, please follow the directions you receive within 48 hours.
You should receive the confirmation e-mail within a few minutes. Please make certain that your spam filtering allows messages from support@dyndns.com to be delivered. If you have not received this e-mail within an hour or so, request a password reset. Following the instructions in the password reset e-mail will also confirm your new account.
Thanks for using DynDNS!

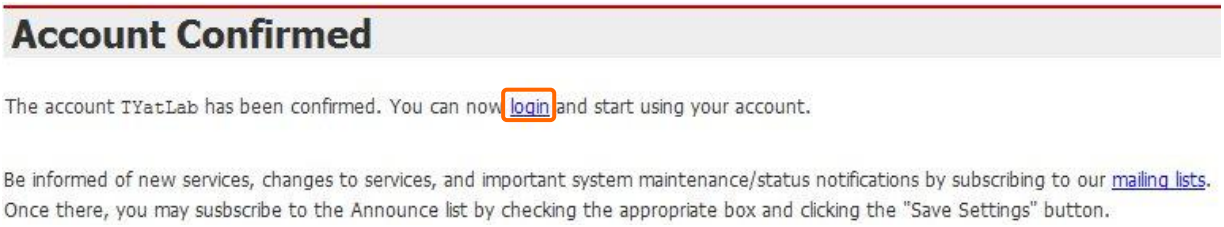
【Step 4】

Click on the indicated address within your mail to confirm.

```
Your DynDNS Account 'TYatLab' has been created. You need to
visit the confirmation address below within 48 hours to complete
the account creation process:

https://www.dyndns.com/account/confirm/Z3OpStScjR_Ypn82CNMyZQ

Our basic service offerings are free, but they are supported by
our paid services. See http://www.dyndns.com/services/ for a
full listing of all of our available services.

If you did not sign up for this account, this will be the only
communication you will receive. All non-confirmed accounts are
automatically deleted after 48 hours, and no addresses are kept
on file. We apologize for any inconvenience this correspondence
may have caused, and we assure you that it was only sent at the
request of someone visiting our site requesting an account.

Sincerely,
The DynDNS Team
```

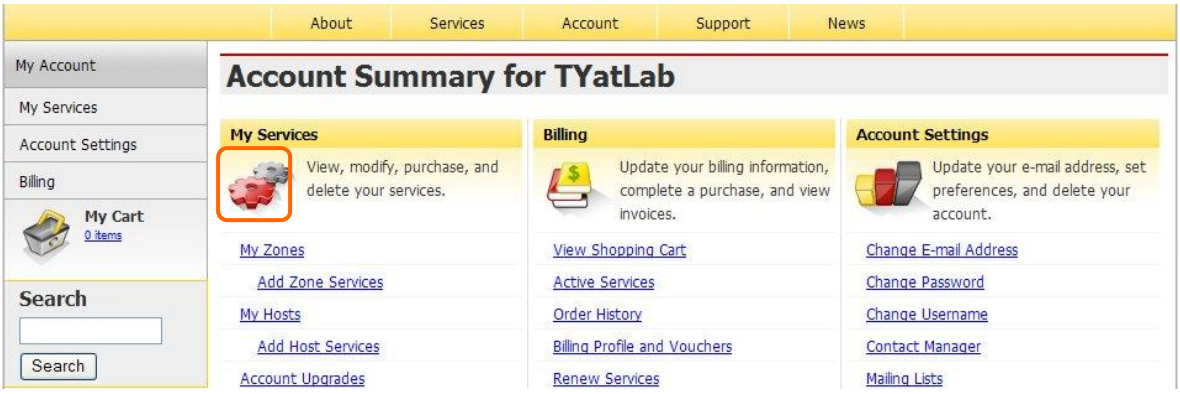
【Step 5】

Click on **login**.


Account Confirmed
The account TYatLab has been confirmed. You can now login and start using your account.
Be informed of new services, changes to services, and important system maintenance/status notifications by subscribing to our mailing lists.
Once there, you may susbscribe to the Announce list by checking the appropriate box and clicking the "Save Settings" button.

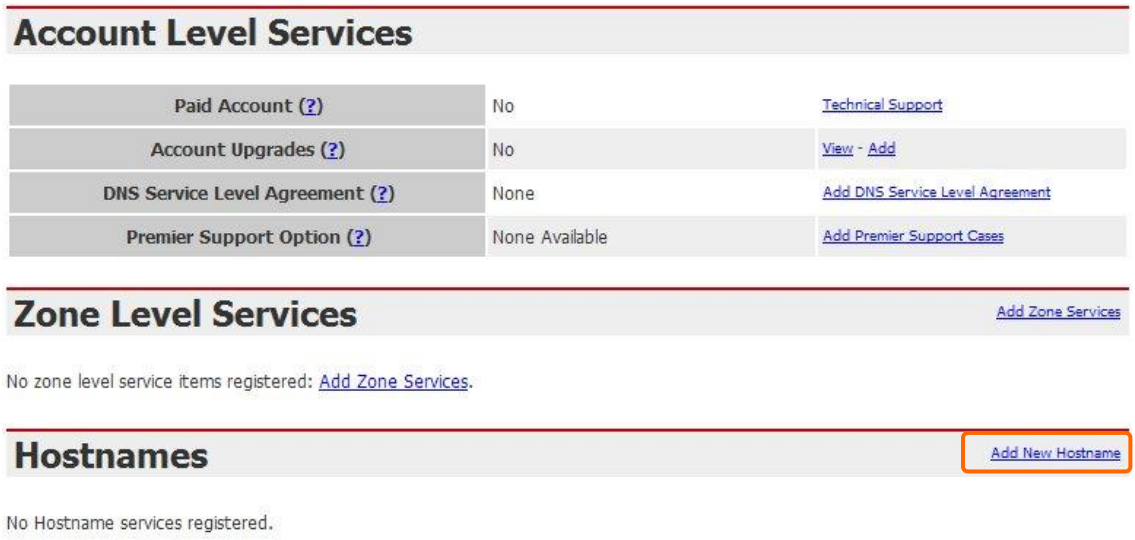
【Step 6】

Click **My Services** after logging in.



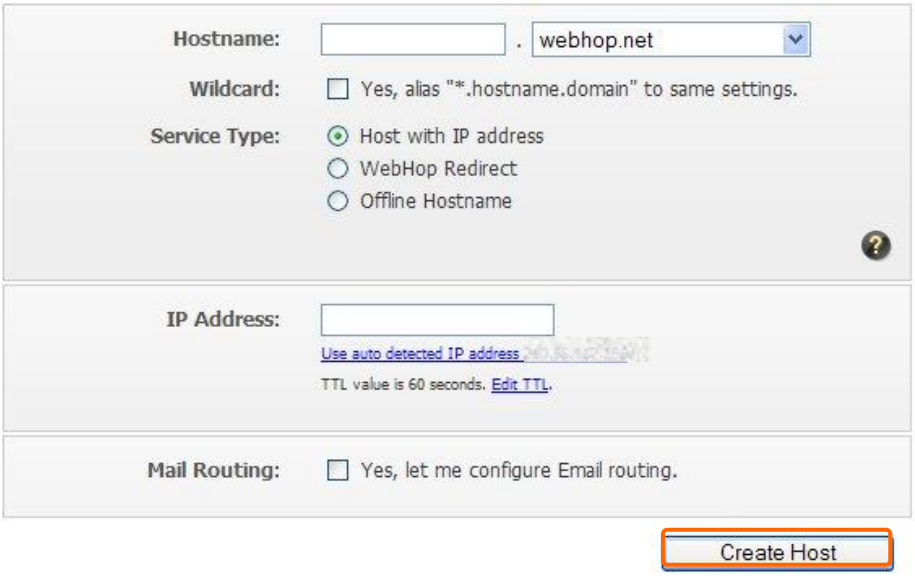
【Step 7】

Click **Add New Hostname**.



【Step 8】

Put in your favorite hostname and service type, and then click **Create Host** after finished.



【Step 9】

Your hostname has been created when you see the following page.

Chapter 7 Q & A

7.1 Installation

1. Q: Where is the XDSL Router installed on the network?

A: In a typical environment, the Router is installed between the XDSL line and the LAN. Plug the XDSL Router into the XDSL line on the wall and Ethernet port on the Hub (switch or computer).

2. Q: Why does the throughput seem slow?

A: To achieve maximum throughput, verify that your cable doesn't exceed 100 meter. If you have to do so, we advise you to purchase a bridge to place it in the middle of the route in order to keep the quality of transmitting signal. Out of this condition you would better test something else.

- Verify network traffic does not exceed 37% of bandwidth.
- Check to see that the network does not exceed 10 broadcast messages per second.
- Verify network topology and configuration.

7.2 LED

1. Q: Why doesn't MT4205 power up?

A: Check if the output voltage is suitable, or check if the power supply is out of order.

2. Q: The Internet browser still cannot find or connect to MT4205 after verifying the IP address and LAN cable, the changes cannot be made, or password is lost.

A: In case MT4205 is inaccessible, you can try to restore its factory default settings. Please press the “Reset” button and keep it pressed for over 7 seconds and the light of STATUS will vanish. The LEDs will flash again when reset is successful.

3. Q: Why does MT4205 shut down unexpectedly?

A: Re-plug your power adapter. Then, check the STATUS indicator; if it is off, the internal flash memory is damaged. For more help, please contact with your provider.

7.3 IP Address

1. Q: What is the default IP address of the router for LAN port?

A: The default IP address is 192.168.1.1 with subnet mask 255.255.255.0

2. Q: I don't know my WAN IP.

A: There are two ways to know.

Way 1: Check with your Internet Service Provider.

Way 2: Check the setting screen of MT4205. Click on **Status & Log** item to select **Network Configuration** on the Main Menu. WAN IP is shown on the WAN interface.

3. Q: How can I check whether I have static WAN IP Address?

A: Consult your ISP to confirm the information, or check **Network Configuration** in MT4205’s Main Menu.

4. Q: Will the Router allow me to use my own public IPs and Domain, or do I have to use the IPs provided by the Router?

A: Yes, the Router mode allows for customization of your public IPs and Domain.

7.4 OS Setting

1. Q: Why can’t my computer work online after connecting to 3.5G plus WLAN Mobile Server Server Router?

A: It's possible that your Internet protocol (TCP/IP) was set to use the following IP address. Please do as the following steps. (Windows 2000 & XP) **Start**＞**Settings**＞ **Network and Dial-up Connections**＞double click on **Internet Protocol(TCP/IP)**＞ select **obtain IP address automatically**＞ Click on **OK** button**.** Then, open Internet browser for testing. If you still can't go online, please test something else below.

- Verify network configuration by ensuring that there are no duplicate IP addresses.
- Power down the device in question and ping the assigned IP address of the device. Ensure no other device responds to that address.
- Check that the cables and connectors or use another LAN cable.

2. Q: Why can't I connect to the router's configuration utility?

A: Possible Solution 1: Make sure that your Ethernet connect properly and securely. Make sure that you've plugged in the power cord.

Possible Solution 2: Make sure that your PC is using an IP address within the range of 192.168.1.2 to 192.168.1.254. Make sure that the address of the subnet mask is 255.255.255.0. If necessary, the Default Gateway data should be at 192.168.1.1. To verify these settings, perform the following steps:

Windows 95, 98, or My Users:

1. Click on Windows **Start** > click on **Run** > input **winipcfg** > click on **OK** button.
2. Check the IP Address, Subnet Mask, Default Gateway data. Is this data correct? If the data isn't correct, click on **Release All**. Then click on **Renew All**.

Windows NT, 2000, or XP Users:

1. Click on Windows **Start** > click on **Run** > input **cmd** > click on **OK** button.
2. At the DOS prompt, type ipconfig/all.
3. Check the IP Address, Subnet Mask, Default Gateway data. Is this data correct? If the data isn't correct. Please input **ipconfig/release** > press **Enter** > input **ipconfig/renew** > press **Enter**.

Possible Solution 3: Verify the connection setting of your Web browser and verify that the HTTP Proxy feature of your Web browser is disabled. Make these verifications so that your Web browser can read configuration pages inside your router. Launch your Web browser. **Internet Explorer Users:**

1. Click on **Tools** > **Internet Options** > **Connections tab**.

2. Select **never dial a connection**, click on **Apply** button, and then click on **OK** button.
3. Click on **Tools** and then click on **Internet Options**.
4. Click on **Connections** and then click on **LAN Settings**.
5. Make sure none of the check boxes are selected and click on **OK** button.
6. Click on **OK** button.

Netscape Navigator Users:

1. Click on **Edit** > **Preferences** > double-click **Advanced** in the Category window.
2. Click on **Proxies** > select **Direct connection to the Internet** > click on **OK** button.
3. Click on **Edit again** and then click on **Preferences**.
4. Under category, double-click on **Advanced** and then click on **Proxies**.
5. Select **Direct connection to the Internet** and click on **OK** button.
6. Click on **OK** button.

3. Q: Web page hangs, corrupt downloads, or nothing but junk characters is being displayed on the screen. What do I need to do?

A: Force your NIC to 10Mbps or half duplex mode, and turn off the "Auto-negotiate" feature of your NIC as a temporary measure. (Please look at the Network Control Panel, in your Ethernet Adapter's Advanced Properties tab.)

4. Q: Why can't I connect to the Web Configuration?

A: you can remove the proxy server settings in your web browser.

7.5 MT4205 Setup

1. Q: Why does MT4205's setup page shut down unexpectedly?

A: If one of the pages appears incompletely in MT4205's setup pages, please click on **Logout** item on the Main Menu before shutting it down**.** Don't keep it working. Then, close Internet browser and open it again for going back to the previous page.

2. Q: Why can't my USB devices and LAN ports work properly after setting the DHCP?

A: There are two rules over here.

Rule1: After connecting USB devices, please reboot your Router.

Rule2: Before finishing the DHCP setup, please don't connect any computer to LAN ports, because the conflict of having the same IP may occur and cause some computers a lot of trouble.

※Notice: Make sure that you always click on the Apply button after configuring each setting. And in order to let other LAN ports work properly, please reboot your PC.

3. Q: I don't know how to configure DHCP.

A: DHCP is commonly used in the large local network. It allows you to manage and distribute IP addresses from 2 to 254 throughout your local network via MT4205. Without DHCP, you would have to configure each computer separately. It's very troublesome. Please Open **Internet browser** > Input **192.168.1.1 in the website blank field** > Select **DHCP Server under** the **IP Config Menu**. For more information, please refer to 3.3.2 (Router Mode) or 4.3.1 (AP Mode).

4. Q: How do I upgrade the firmware of MT4205?

A: Periodically, a new Flash Code is available for MT4205 on your product supplier's website. Ideally, you should update MT4205's Flash Code using **Firmware Upgrade** on the **System Management** menu of MT4205 Settings.

5. Q: My MT4205 cannot connect to the ISP?

A: There are three possible solutions.

1. Check the Cable/XDSL modem is power on.
2. Check the Cable/XDSL link light is on to verify a good physical connection.
3. Check the WAN port LED to verify if the Cable/XDSL modem is connected to the router:

If your ISP Login method is following, please make sure the username and password are correct or not.

If your ISP is using dynamic IP addressing (DHCP) then the DHCP protocol does not have the authentication feature. Some Cable service providers often use the following to determine user's identification.

6. Q: Why is that I can ping to outside hosts, but cannot access Internet websites?

A: Check the DNS server settings on your PC. You should get the DNS servers settings from your ISP. If your PC is running a DHCP client, remove any DNS IP address setting. As the router assign the DNS settings to the DHCP-client-enabled PC.

7. Q: MT4205 couldn't save the setting after click on Apply button?

A: MT4205 will start to run after the setting finished applying, but the setting isn't written into memory. Here we suggest if you want to make sure the setting would be written into memory, please reboot the device via **Rebo**ot under **System Management** directory**.**

7.6 Wireless LAN

1. Q: Why couldn't my wireless notebook work on-line after checking?

A: Generally, Wireless networks can sometimes be very complicated to set up, particularly if you're dealing with encryption and products from different vendors. Any number of variables can keep your workstations from talking to each other. Let's go over some of more common ones.

For starters, verify that your router and your workstation are using the same SSID descriptions. SSID acts as a password when a mobile device tries to connect to the wireless network. The SSID also differentiates one WLAN from another, so all access points and all devices attempting to connect to a specific WLAN must use the same SSID. A workstation will not be permitted to connect to the network unless it can provide this unique identifier. This is similar to the function of your network's Workgroup or Domain name.

When you're experiencing conductivity problems, it is always best to keep things simple. So next you are going to do is that, please disable any WEP encryption you might have configured.

Successful implementation of encryption also includes the use of a shared key. A HEX key is the most common, but other formats are also used. This key identifies the workstation to the router as a trusted member of this network. Different manufacturers can implement this key technology in ways that might prevent them from working correctly with another vendor's products. So pay attention to detail is going to be the key to a successful installation.

Next make sure the router and the NIC are configured to use the same communications channel. There are normally 11 of them, and the default channel can also vary from vendor to vendor. You might also want to confirm that the router has DHCP services enabled and an address pool configured. If not, the NIC won't be able to pick up an IP address. I have run across a few access points that offer DHCP services but do not assign all of the needed IP information to the NIC. As a result, I was able to connect to the network, but could not browse the web. The point is, don't assume anything. Verify for yourself that all of the required settings are being received by the workstation.

Finally, you might want to keep the system you're trying to configure in the same room as the router, at least during the initial configuration, in order to minimize potential interference from concrete walls or steel beams.

2. Q: My PC can't locate the Wireless Access Point.

A: Check the following:

- Your PC is set to Infrastructure Mode. (Access Points are always in Infrastructure Mode.)
- The SSID on your PC and the Wireless Access Point are the same. Remember that the SSID is case-sensitive. So, for example "Workgroup" does NOT match "workgroup".
- Both your PC and the Wireless Access Point must have the same setting for WEP. The default setting for the Wireless Router is disabled, so your wireless station should also have WEP disabled.
- If WEP is enabled on the Wireless Router, your PC must have WEP enabled, and the key must match.

- If the Wireless Router's Wireless screen is set to Allow LAN access to selected Wireless Stations only, then each of your Wireless stations must have been selected, or access will be blocked.
- To see if radio interference is causing a problem, see if connection is possible when close to the Wireless Access Point. Remember that the connection range can be as little as 100 feet in poor environments.

3. Q: Wireless connection speed is very slow.

A: The wireless system will connect at highest possible speed, depending on the distance and the environment. To obtain the highest possible connection speed, you can experiment with following:

- Access Point location: Try adjusting the location and orientation of the Access Point.
- Wireless Channel: If interference is the problem, changing to another channel may show a marked improvement.
- Radio Interference: Other devices may be causing interference. You can experiment by switching other devices off, and see if this helps. Any "noisy" devices should be shielded or relocated.
- RF Shielding: Your environment may tend to block transmission between the wireless stations. This will mean high access speed is only possible when close to the Access Point.

4. Q: Some applications do not run properly when using the Wireless Router.

A: The Wireless Router processes the data passing through it, so it is not transparent. Use the Special Application feature to allow the use of Internet applications which do not function correctly. If this does solve the problem, you can use the DMZ function. This should work with almost every application, but:

- It is a security risk, since the firewall is disabled.
- Only one (1) PC can use this feature.

5. Q: I can't connect to the Wireless Router to configure it.

A: Check the following:

- The Wireless Router is properly installed, LAN connections are OK, and it is powered ON.
- Make sure that your PC and the Wireless Router are on the same network segment.
- If your PC is set to "Obtain an IP Address automatically" (DHCP client), restart it.
- If your PC uses a Fixed (Static) IP address, make sure that it is using an IP Address within the range 192.168.1.129 to 192.168.1.253 and thus compatible with the Wireless Router's default IP Address of 192.168.1.254. Also, the Network Mask should be set to 255.255.255.0 to match the Wireless Router. In Windows, you can check these settings by using *Control Panel ~ Network* to check the *Properties* for the TCP/IP protocol.

6. Q: The WinXP wireless interface couldn't communicate the WEP with MT4205's wireless interface.

A: The default WEP of WinXP is **Authentication Open System - WEP**, but the WEP of MT4205 is only for **Shared Key - WEP**, it caused both sides couldn't communicate. Please select the WEP of WinXP from Authentication Open System to **Pre-shared Key - WEP**, and then the WEP wireless interface between WinXP and MT4205 would be communicated.

7.7 Samba Server

1. Q: Why can't I access the Samba Folder via my network places while connecting to MT4205?

A: First, you should check if you have connected assigned storage device properly. Then enable Samba Server afterwards, so that it can be accessed.

7.8 USB FTP Server

1. Q: How does MT4205 assign numbers for the Hard Disk?

A: The USB FTP operation of MT4205 is to assign the numbers as a, b, c, d when catch different HDs, if there are 2 or more main partitions in the same HD, then the assign number will plus 1,2,3,4 (e.g. a1, a2, a3, a4); and the logic partition will be assigned number from 5 (e.g. a5, a6, a7……).
Example: There are 2 hard disks, one of them has 1 main partition and 2 logic partitions, and the other one has 2 main partitions. Both these 2 hard disks connect to MT4205's USB port, and the screen will show the router's data folder as a1, a5, a6, b1, b2 when log in FTP.

※ Notice: To authorize the right to each user who uses MT4205 FTP function, please go to the router's data folder to set up.

3. Q: How to Add Account under USB FTP Server?

A: To add a new Account, Username and Password are not allowed to leave with blank space, and the password should be 1 to 8 letters. When input the words, the character will always show hexed (6) "*****" form for the security scruple. For adding the new users, please click on Add button to add the name into User Account List, and

then the user can start to use the function of MT4205.

4. Q: How to remove or revise the files on FTP server?

A: If there is any file needing to be revised, here suggests downloading the file to the HDD of PC and modifying it locally. Then upload to FTP server again after revised.

7.9 Webcam Server

1. Q: I cannot view Webcam's video screen from WAN.

A: Please follow the steps below.
Step1. Open Internet browser and enter http://**192.168.1.1** in the address field.
Step2. Enter **admin** in both "**User Name**" and "**Password**" fields. Then, click on **Login** button.
Step3. Click on **Web Camera Server** under **Server** directory of the Main Menu.
Step4. Then, select **Enable** to turn on **Webcam Access from WAN**.

2. Q: Why is that the image from Webcam is so vague?

A: Please adjust the circular-frame around the Webcam's Len, until the image from Webcam showed on PC's screen is clear.

3. Q: Can I use two Webcams at the same time?

A: No, MT4205 supports only one Webcam to monitor.

4. Q: Can I use any digital camera which supports webcam function to connect to MT4205?

A: No, MT4205 doesn't support digital camera.

5. Q: Does MT4205 support all Webcam models?

A: No, MT4205 only supports the Webcams possessing OV511, OV511+, SAA8115HL, Sonix PcCam, Sonix PcCam+, Sonix sn9c102P Hv7131R, Sonix sn9c120 OV7648, Generic spca536a, Z-star Vimicro 0301p, Z-star Vimicro Zc0302 or SAA8116HL chipsets.

6. Q: Why couldn't the image of USB Webcam be seen from WAN?

A: Besides making sure to enable the USB Webcam **Access from WAN**, the **Remote Management** should be enabled as well, so that the image of USB Webcam could be seen from WAN.

7.10 Printer Server

1. Q: Why can't my printer work?

A: For more details, please refer to Chapter 3.5.5 Print Server in the USB Application. Maybe MT4205 doesn't support your printer. You can contact with us to get more updated information about printer driver support.

2. Q: Printer is beginning printing, but it prints slowly and with unidentified words or codes. How could it happen?

A: Your printer's driver is lost or incompatible with your router. Please set up the printer's driver again. If you don't have the appropriate driver or want to get a compatible one, please contact with your printer supplier.

7.11 Support

1. Q: Why can't the NTFS hard disk be used with MT4205?

A: MT4205 doesn't support the NTFS hard disk. It only supports EXT3 and FAT32 file systems.

2. Q: Why can't my USB devices work on MT4205?

A: Maybe your USB devices and MT4205 are not compatible. So if you want to know whether your inserted device such as USB Web Camera, USB Printer or USB HDD corresponds with MT4205, please check with your product supplier.

3. Q: What is the maximum number of IP addresses that the XDSL Router will support?

A: The Router will support to 253 IP addresses with NAT mode.

5. Q: Is the Router cross-platform compatible?

A: Any platform that supports Ethernet and TCP/IP is compatible with the Router.

7.12 Others

1. Q: Why can't I receive corrupted FTP downloads?

A: If you are experiencing corrupted files when you download a file with your FTP client, try using another FTP program.

2. Q: Why does the router dial out for PPPoE mode very often?

A: Normally some of game, music or anti-virus program will send out packets that trigger the router to dial out, you can close these programs. Or you can set the idle time to 0, then control to dial out manually.

3. Q: What can I do if there is already a DHCP server in LAN?

A: If there are two DHCP servers existing on the same network, it may cause conflict and generate trouble. In this situation, we suggest to disable DHCP server in router and configure your PC manually.

7.13 USB Device

1. Q: How many USB devices can be connected to the Product?

A: MT4205 supports maximum of 2 USB ports.

Chapter 8 Appendices

MT4205 supports the listed USB devices as follows.

8.1 Printer

MT4205 supports LPR protocol, while the printer drivers can be installed on Windows 98/2000/XP platforms, the connected printer works for the unit as well.

- If you need more information of supported models, please check the following websites.
  http://www.sane-project.org/sane-mfgs.html
  http://hplip.sourceforge.net/

8.2 Web Camera

MT4205 supports OV511, OV511+, OV518, OV518+, SAA8115HL and SAA8116HL chipsets; besides, adding spca5xx/LE driver into firmware as the table below shows.

Vendor Name	Product Name	Chipset
Aiptek	HyperVcam Mobile	OV511+
Aiptek	HyperVcam Fun	OV511+
Aiptek	HyperVcam Home	OV511+
Askey	VC010	SAA8115HL
Alpha Vision Tech.	AlphaCam SE (model AC-520)	OV511
Avaks	AvCam USB-600	OV511
AverMedia	Intercam Elite	OV511
BestBuy	EasyCam U	OV511
Creative Labs	WebCam (model PD1001, alternate version)	OV518
Creative Labs	WebCam 3	OV511
Creative Labs	WebCam 5 (PID=400c)	SAA8116HL
Creative Labs	WebCam Plus (Model CT6840)	OV511+
Creative Labs	WebCam Plus ("WebCam Mini"; model PD0040)	OV518
Creative Labs	WebCam Pro (model PD1030)	OV511+
Creative Labs	Webcam Pro Ex	OV511
D-Link	DSB-C100	OV511+
D-Link	DSB-C310	OV518 +
D-Link	DU-C300	OV511
Elecom	UCAM-C1C30	OV511+
Elta	WEBCam 8211 PCC	OV511/OV511+
Ezonics	EZPhone Cam	OV518+
Ezonics	EZ USB Cam II	OV511+
Genius	VideoCam Express	OV511+
Hawking Tech.	PD-300	OV511
Hawking Tech.	UC-110	OV511+
Hawking Tech.	UC-300	OV511
Hawking Tech.	UC-310	OV511
I-View	NetView NV300M	OV511
Intel	Me2Cam	OV511+
LG Electronics	LPC-UM10	OV511+
LG Electronics	LPC-UM15	OV511+
Lifeview	USB CapView	OV511+
Lifeview	RoboCam	OV511

Lifetec	LT 9388	OV511
Logitech	QuickCam 3000 Pro	SAA8116HL
Logitech	QuickCam 4000 Pro	SAA8116HL
Logitech	QuickCam Orbit/Sphere	SAA8116
Maitech	AWK-300	OV511+
Maxxtro	CAM22U	OV511
Maxell	Maxcam (MPCC-1)	OV511
Medion	MD9388	OV511+
MediaForte	MV300	OV511
MediaForte	PC Vision 300	OV511
Mustek	WCam 3X	OV511
Mtekvision	Zeca MV402	OV511+
OmniVision	OV7110 Eval Board	OV511
OmniVision	OV511+/OV7120 Eval Board	OV511+
OmniVision	OV511+/OV7620 Eval Board	OV511+
Pretec	PCC-600	OV511
Prochips	PCA-3100	OV511+
Puretek	PT-6007	OV511
Philips	PCVC675K "Vesta"	SAA8115HL
Philips	PCVC680K "Vesta Pro"	SAA8115HL
Philips	PCVC690K "Vesta Scan"	SAA8115HL
Philips	PCVC720K/40 "ToUCam XS"	OV511
Philips	PCVC730K "ToUCam Fun"	SAA8116HL
Philips	PCVC740K "ToUCam Pro"	SAA8116HL
Philips	PCVC750K "ToUCam Scan"	SAA8116HL
Sotec	Sotec Afine Eye	SAA8115HL
Suma	EON	OV511+
Samsung	MPC-C10	SAA8115HL
Samsung	MPC-C30	SAA8115HL
Samsung	Anycam MPC-M10	OV511+
TRENDNet	TV-PC100	OV511+
TRENDNet	TV-PC300	OV511+
TRENDNet	TV-PC301	OV511+
Trust	Sp@ceC@m USB	OV511
Trust	Sp@ceC@m 150	OV511+
Trust	Sp@ceC@m 200	OV511+
Trust	Sp@ceC@m 300	OV511+
Typhoon	WebShot 350	OV518+
TEVion	MD9308	OV511+
TCE	NetCam 310u	OV511

Terratec	TerraCam PRO	OV511+
Terratec	TerraCam USB PRO	OV511+
Waytech	I-Pac VIC-30	OV511+
Webeye	2000B	OV511+

Vendor Name	Product Name	Driver Spca5xx/LE
Aiptek	Aiptek PocketDVII1.3 MPixels	spca533a
Aiptek	Mini PenCam 2M	spca504b
Aiptek	PenCam SD 2M	spca504b
Aiptek	Pocket DV3100	spca533a
Aiptek	Pocket DV3500	spca536a
Aiptek	Pocket DV5100	spca536a
Aiptek	Pocket DV5300	spca536a
Aiptek	PocketCam 2M	spca504b
Aiptek	PocketCam 3M	spca504b
Aiptek	PocketCam 4M	spca533
Aiptek	Slim3200	spca533a
Aiptek/Sunplus	Mini Pencam 1.3	spca504b
Benq	DC 1300	spca504b
Benq	DC 1500	spca533a
Benq	DC 3410	spca533a
Concord	Concord 3045	spca536a
Creative	Creative Instant	Zc0301
Creative	Creative Instant	Zc0301
Creative	Creative Live!	Zc0301P
Creative	Creative Live!Cam VideoIM	Vc301p
Creative	Creative notebook pd1171	--
Creative	Creative NX	Zc0301
Creative	Creative NX Pro	Zc0301P
Creative	Creative NX Pro2	Zc0301P
Creative	Creative WebCam Live!	Vc301p
Creative	Live! Cam Optia	--
Creative	Live! Cam Optia AF	--
Creative	Live! Cam Voice	--
Creative	PC Cam 350	spca504c
Creative	PC Cam 600	spca504c
Creative	PC Cam 750	spca504b

Creative	WebCam Live! Motion	--
Creative	WebCam Live! Ultra	--
Creative	WebCam Live! Ultra for Notebooks	--
Creative	Webcam Mobile	Zc0301P
Creative	Webcam NoteBook	Zc0301P
Digital Dream	Enigma 1.3	spca504b
Digital Dream	Epsilon 1.3	spca533a
Generic	Generic vimicro 303b	--
Generic	Generic Zc0305b	--
Genius	Dsc-1.3M Smart	spca504b-P3
Genius	Eye 310	--
Genius	Genius eye 311Q	sn9c120
Genius	Look 1320	--
Genius	Look 313 Media	--
Genius	Look 316	--
Genius	Look 320S	--
Genius	Slim 310NB	--
Genius	Slim 322	--
Genius	Video CAM EYE	--
Genius	VideoCam Express V2	spca561a
Genius	VideoCam GE111	Pac207
Genius	VideoCAM Look	--
Genius	VideoCAM Messenger	--
Genius	VideoCAM Trek	--
Genius	VideoCamV2	Zc0301P
Genius	VideoCamV3	Zc0301P
jenoptik	JDC 21 LCD	spca533
JVC	GC-A50	spca504b
Kowa	Bs-888e	spca536
Labtec	NoteBooks	Zc0302
Labtec	Webcam Pro	Zc0302
LG	Lic-300	sn9c105
Logitech	Clicksmart 420	spca504b
Logitech	Clicksmart 820	spca533a
Logitech	Communicate STX	Zc0302
Logitech	Communicate STX	Vc0302
Logitech	NoteBook Deluxe	Zc0302

Logitech	QuickCam Chat	zc030x
Logitech	QuickCam IM	zc030x
Logitech	QuickCam IM	zc030x
Logitech	QuickCam IM	zc030x
Logitech	QuickCam IM/Connect	zc030x
Logitech	QuickCam IM+Sound	zc030x
Logitech	QuickCam tor Notebook	zc030x
Megapix	Megapix V4	spca533a
Mercury	Cyberpix S550V	--
Mercury	Peripherals Inc.	--
MercuryDigital	Mercury Digital Pro 3.1 Mp	spca533
Micro Innovation	WebCam320	zc030x
Mustek	DV 3000	spca533a
Mustek	DV4000	spca536a
Mustek	Gsmart D30	spca533a
Mustek	Gsmart LCD2	spca533a
Mustek	Gsmart LCD3	spca533a
Mustek	Gsmart mini2	spca504a
Mustek	Gsmart mini3	spca504a
Mustek	MDC 4000	spca533a
Mustek	MDC 5500z	spca533a
Mustek	Mustek Wcam 300A 2	--
Mustek	Mustek WCam300AN	--
Mustek	WCam300A	Zc0301P
Polaroid	Ion 80	spca504b
Polaroid	PDC2030	spca504b
Polaroid	PDC3070	spca533a
Terratec	TeraCam2 move1.3	spca504b

8.3 USB Devices

MT4205 supports FAT16, FAT32 and EXT3 file systems.

1. Flash Drive

Vendor Name	Product Name	Note
Panram	MEMORY BLOCK	USB2.0
A-DATA	Lover	USB2.0

A-DATA	My Flash PD1 (512MB)	USB2.0
Zynet	PD-A2	USB 2.0
Maxtor	DiamondMax Plus8	USB 2.0
Kingston	Data Traveler 2.0	
Shuttle	SFD-0128	
Apacer	HandyDrive	
PQI	I-Ststick 32MB	
Apacer	Handy Steno 64MB	USB 1.1
ASUS	AI-flash 2 64MB	
ASUS	32MB	
GENUINE	32MB	
NEXS	SD card	
Transcend	JetFlash 128 MB	USB 2.0
SanDisk	Curzer Mini Flash 256MB	USB 2.0
PQI	Cool Drive(U339) 128 MB	USB 2.0
KingMax	128MB	USB 1.0
Kinggaroo	SONA 128MB	USB 2.0

2. External Hard Drive

Vendor Name	Model No.	Chipset	Note	Tested
		Ali m5621 al		√
		Ali m5637 al		√
Hi-Speed	HD-D14-U2	Ali m5642 a1	FUJI 60G (5400rpm)	√
		GL811E		√
		GL811USB		√
MySon Century		CS88186_107		√
Cypress		CY7C68300-56PVC		√

8.4 Operating Systems

1. MicroSoft: Windows 2000, XP (Chinese/English), Vista
2. Apple: Mac OS X 10.4.7

8.5 Browsers

1. Internet Explorer ver. 6 and 7
2. Firefox ver. 2.0.0.4

3. Safari ver. 2.0.4 or higher version

8.6 Easy Setup

MicroSoft: Windows 2000, XP, Vista

8.7 Communications Regulation Information

Should any consumers need to learn more information, services and supports, please contact the supplier of your product directly.